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 307 (IL 64): Pump Station 12 to Outlet Structur Office Phone Number, if available:

Physical Site Location (address, including number and street):
1800-2300 blocks of 25th Avenue (ISGS Site No. 2789V-1)

City: Melrose Park State: IL Zip Code: 60160

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: 41.91115 Longitude: -87.86498
(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.): 376

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.

Project Name: FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver C Latitude: 41.91115 Longitude: - 87.86498

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS OF 2789V-1-B01, 2789V-1-B02, AND 2789V-1-B04 WERE SAMPLED AT SITE 2789V-1. SEE FIGURE 3-2 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]:

EUROFINS TEST AMERICA REPORT - JOB ID: 500-176313-1.
ALSO, SEE FIGURE 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))

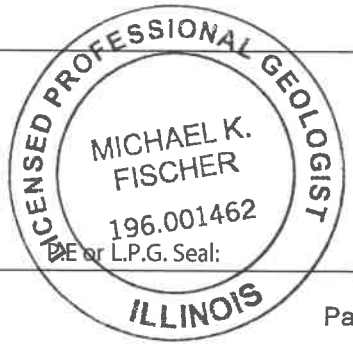
Company Name:	Environmental Design International inc.
Street Address:	33 West Monroe Street, Suite 1825
City:	Chicago State: IL Zip Code: 60603
Phone:	312-345-1400

Michael Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/26/20
Date:

PE or L.P.G. Seal:



Summary Table of ISGS Site No. 2789V-1
Detected Soil Analytes and Comparison with Applicable Criteria
Soil Analytical Results
IDOT Contract No: PTB 174-009; Work Order 066A
FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver Creek (ISGS Site No. 2789V-1)
Melrose Park and Franklin Park, Cook County, Illinois

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	2789V-1-B01 (0-6)	2789V-1-B02 (0-6)	2789V-1-B04 (0-6)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route				CCDD	Sample Depth (feet)	0 - 6	0 - 6	0 - 6
											Lab Sample ID	500-176313-1	500-176313-2	500-176313-4
										mg/kg	ISGS Site No.	2789V-1	2789V-1	2789V-1
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	pH 6.25-9.0	Date Collected	1/14/2020	1/14/2020	1/14/2020
Volatile Organic Analytical Parameters														
Acetone	mg/kg	70,000	100000	---	100000	25	*	---	---	25		0.016	ND	0.052
Semivolatile Organic Analytical Parameters														
2-Methylnaphthalene	mg/kg	310	---	820	---	7.2	---	---	0.14	---		ND	ND	ND
Anthracene	mg/kg	23,000	---	610,000	---	12,000	*	0.25	0.4	12,000		0.013	ND	ND
Benzo[a]anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		0.034	0.0082	0.025
Benzo[a]pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		0.031	0.0075	0.029
Benzo[b]fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		0.050	ND	0.045
Benzo[g,h,i]perylene	mg/kg	2,300	---	61,000	---	27,000	---	0.68	1.7	2,300		0.016	ND	0.014
Benzo[k]fluoranthene	mg/kg	9	---	1,700	---	49	*	0.99	1.7	9		0.023	ND	0.018
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		0.038	0.017	0.030
Fluoranthene	mg/kg	3,100	---	82,000	---	4,300	*	2.7	4.1	3,100		0.066	0.015	0.052
Indeno[1,2,3-cd]pyrene	mg/kg	0.9	---	170	---	14	*	0.86	1.6	0.9		0.016	ND	0.013
Phenanthrene	mg/kg	2,300	---	61,000	---	200	---	1.3	2.5	210		0.045	0.016	0.022
Pyrene	mg/kg	2,300	---	61,000	---	4,200	*	1.9	3	2,300		0.055	0.015	0.044
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	750	61	25,000	---	*	---	13	11.3		8.0	8.4	10
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	---	110	1,500		89	77	93
Beryllium	mg/kg	160	1,300	410	44,000	---	*	---	0.59	22		0.78	0.74	0.74
Cadmium	mg/kg	78	1,800	200	59,000	---	*	---	0.6	5.2		0.48	0.40	0.38
Calcium	mg/kg	---	---	---	---	---	*	---	9,300	---		7200	26000	23000
Chromium	mg/kg	230	270	4,100	690	---	*	---	16.2	21		19	16	18
Cobalt	mg/kg	4,700	---	12,000	---	---	*	---	8.9	20		14	11	15
Copper	mg/kg	2,900	---	8,200	---	---	*	---	19.6	2,900		24	27	27
Iron	mg/kg	---	---	---	---	---	---	---	15,900	15,000		21000	20000	23000
Lead	mg/kg	400	---	700	---	---	*	---	36	107		22	18	20
Magnesium	mg/kg	325,000	---	730,000	---	---	*	---	4,820	325,000		6000	16000	15000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	---	636	630		580	320	600
Mercury	mg/kg	23	10	61	0.1	---	*	---	0.06	0.89		0.035	0.027	0.027
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	---	18	100		34	29	32
Potassium	mg/kg	---	---	---	---	---	---	---	1,268	---		1600	1700	1900
Selenium	mg/kg	390	---	1,000	---	---	*	---	0.48	1.3		ND	ND	ND
Silver	mg/kg	390	---	1,000	---	---	*	---	0.55	4.4		3.4	2.7	3.0
Sodium	mg/kg	---	---	---	---	---	*	---	130	---		62	92	89
Thallium	mg/kg	6	---	160	---	---	*	---	0.32	2.6		1.9	1.8	2.1
Vanadium	mg/kg	550	---	1,400	---	---	*	---	25.2	550		27	23	26
Zinc	mg/kg	23,000	---	61,000	---	---	*	---	95	5,100		69	68	66
pH										6.25 - 9.0		7.2	7.6	7.4
Inorganic Analytical Parameters (TCLP)														
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	ND	ND
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.31	0.39	0.52
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		ND	ND	ND
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		ND	ND	ND
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		260	370	320
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	---	---	---	---	---	---	---	---	---		100	92	130
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.92	0.14	0.15
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		ND	ND	ND
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND	ND	ND
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.3	1.1	1.4
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	---	---	---	---		0.27	ND	0.25
Inorganic Analytical Parameters (SPLP)														
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.083	--	--

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-176313-1
Client Project/Site: IDOT - PTB 174-009 - WO 066

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

Attn: Michael Fischer

Authorized for release by:
1/24/2020 2:47:08 PM

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

Client Sample ID: 2789V-1-B01 (0-6) **Lab Sample ID: 500-176313-1**
Date Collected: 01/14/20 09:20 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 77.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.016**	**J**	0.022	0.0097	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Benzene	<0.00057		0.0022	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Bromodichloromethane	<0.00045		0.0022	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Bromoform	<0.00065		0.0022	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Bromomethane	<0.0021		0.0055	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
2-Butanone (MEK)	<0.0025		0.0055	0.0025	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Carbon disulfide	<0.0012		0.0055	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Carbon tetrachloride	<0.00064		0.0022	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Chlorobenzene	<0.00082		0.0022	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Chloroethane	<0.0016	*	0.0055	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Chloroform	<0.00077		0.0022	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Chloromethane	<0.0022		0.0055	0.0022	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
cis-1,2-Dichloroethene	<0.00062		0.0022	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
cis-1,3-Dichloropropene	<0.00067		0.0022	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Dibromochloromethane	<0.00073		0.0022	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,1-Dichloroethane	<0.00076		0.0022	0.00076	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,2-Dichloroethane	<0.0017		0.0055	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,1-Dichloroethene	<0.00076		0.0022	0.00076	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,3-Dichloropropene, Total	<0.00078		0.0022	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
2-Hexanone	<0.0017		0.0055	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Methylene Chloride	<0.0022		0.0055	0.0022	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0055	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Methyl tert-butyl ether	<0.00065		0.0022	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Styrene	<0.00067		0.0022	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,1,2,2-Tetrachloroethane	<0.00071		0.0022	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Tetrachloroethene	<0.00076		0.0022	0.00076	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Toluene	<0.00056		0.0022	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
trans-1,2-Dichloroethene	<0.00098		0.0022	0.00098	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
trans-1,3-Dichloropropene	<0.00078		0.0022	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,1,1-Trichloroethane	<0.00074		0.0022	0.00074	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
1,1,2-Trichloroethane	<0.00095		0.0022	0.00095	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Trichloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Vinyl acetate	<0.0019		0.0055	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Vinyl chloride	<0.00098		0.0022	0.00098	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1
Xylenes, Total	<0.00071		0.0044	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/14/20 17:12*	*01/21/20 12:20*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 12:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*01/14/20 17:12*	*01/21/20 12:20*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/14/20 17:12*	*01/21/20 12:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Acenaphthylene	<0.0056		0.042	0.0056	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Anthracene	**0.013**	**J**	0.042	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Benzo[a]anthracene	**0.034**	**J**	0.042	0.0057	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1

Client Sample ID: 2789V-1-B01 (0-6) **Lab Sample ID: 500-176313-1**
Date Collected: 01/14/20 09:20 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 77.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.031**	**J**	0.042	0.0082	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Benzo[b]fluoranthene	**0.050**		0.042	0.0091	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.042	0.014	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Benzo[k]fluoranthene	**0.023**	**J**	0.042	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Bis(2-chloroethyl)ether	<0.064	*	0.21	0.064	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4-Bromophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Butyl benzyl phthalate	<0.081		0.21	0.081	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Chloronaphthalene	<0.047		0.21	0.047	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4-Chlorophenyl phenyl ether	<0.050		0.21	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Chrysene	**0.038**	**J**	0.042	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Dibenz(a,h)anthracene	<0.0082		0.042	0.0082	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Dibenzofuran	<0.050		0.21	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
1,2-Dichlorobenzene	<0.051		0.21	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
1,3-Dichlorobenzene	<0.048		0.21	0.048	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Diethyl phthalate	<0.072		0.21	0.072	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Di-n-butyl phthalate	<0.065		0.21	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4-Dinitrophenol	<0.75		0.85	0.75	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Fluoranthene	**0.066**		0.042	0.0079	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Fluorene	<0.0060		0.042	0.0060	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Hexachlorobenzene	<0.0098		0.085	0.0098	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Hexachlorobutadiene	<0.067		0.21	0.067	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Indeno[1,2,3-cd]pyrene	**0.016**	**J**	0.042	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Isophorone	<0.048		0.21	0.048	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Methylnaphthalene	<0.0078		0.085	0.0078	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
3 & 4 Methylphenol	<0.071		0.21	0.071	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Nitrobenzene	<0.011		0.042	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2-Nitrophenol	<0.10		0.42	0.10	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1

Client Sample ID: 2789V-1-B01 (0-6) **Lab Sample ID: 500-176313-1**
Date Collected: 01/14/20 09:20 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 77.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
N-Nitrosodi-n-propylamine	<0.052		0.085	0.052	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,2'-oxybis[1-chloropropane]	<0.049	*	0.21	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Pentachlorophenol	<0.68		0.85	0.68	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Phenanthrene	**0.045**		0.042	0.0059	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Phenol	<0.094		0.21	0.094	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
Pyrene	**0.055**		0.042	0.0084	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
1,2,4-Trichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4,5-Trichlorophenol	<0.097		0.42	0.097	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1
2,4,6-Trichlorophenol	<0.15		0.42	0.15	mg/Kg	☼	01/21/20 18:38	01/22/20 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*43 - 145*	*01/21/20 18:38*	*01/22/20 13:48*	*1*
2-Fluorophenol	*83*		*31 - 166*	*01/21/20 18:38*	*01/22/20 13:48*	*1*
Nitrobenzene-d5	*71*		*37 - 147*	*01/21/20 18:38*	*01/22/20 13:48*	*1*
Phenol-d5	*84*		*30 - 153*	*01/21/20 18:38*	*01/22/20 13:48*	*1*
Terphenyl-d14	*96*		*42 - 157*	*01/21/20 18:38*	*01/22/20 13:48*	*1*
2,4,6-Tribromophenol	*67*		*31 - 143*	*01/21/20 18:38*	*01/22/20 13:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24	F1	1.2	0.24	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Arsenic	**8.0**		0.60	0.21	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Barium	**89**		0.60	0.069	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Beryllium	**0.78**		0.24	0.056	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Cadmium	**0.48**	**F1 B**	0.12	0.022	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Chromium	**19**		0.60	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Cobalt	**14**		0.30	0.079	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Copper	**24**		0.60	0.17	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Iron	**21000**	**B**	12	6.3	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Lead	**22**	**F1**	0.30	0.14	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Magnesium	**6000**	**F2**	6.0	3.0	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Calcium	**7200**	**F2 B**	12	2.0	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Manganese	**580**	**B**	0.60	0.088	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Nickel	**34**		0.60	0.18	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Selenium	<0.36	F1	0.60	0.36	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Silver	**3.4**		0.30	0.078	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Thallium	**1.9**		0.60	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Vanadium	**27**		0.30	0.071	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Zinc	**69**		1.2	0.53	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Potassium	**1600**	**F1**	30	11	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	1
Sodium	**62**		60	8.9	mg/Kg	☼	01/16/20 16:28	01/17/20 20:31	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		01/20/20 07:41	01/20/20 18:05	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:05	1

Client Sample ID: 2789V-1-B01 (0-6) **Lab Sample ID: 500-176313-1**
Date Collected: 01/14/20 09:20 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 77.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**260**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:05	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:05	1
Magnesium	**100**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:05	1
Manganese	**0.92**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Potassium	**1.3**	**J**	2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:05	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:05	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:05	1
Zinc	**0.27**	**J**	0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.083**		0.025	0.010	mg/L		01/21/20 15:05	01/22/20 09:11	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		01/20/20 07:41	01/20/20 19:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:11	1

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		01/21/20 14:00	01/22/20 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.021	0.0068	mg/Kg	☼	01/17/20 14:20	01/20/20 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.58	0.29	mg/Kg	☼	01/21/20 09:05	01/21/20 13:08	1
pH	**7.2**		0.2	0.2	SU			01/21/20 17:50	1

Client Sample ID: 2789V-1-B02 (0-6)
Date Collected: 01/14/20 09:35
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-2
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0092		0.021	0.0092	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Benzene	<0.00054		0.0021	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Bromoform	<0.00062		0.0021	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Bromomethane	<0.0020		0.0053	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
2-Butanone (MEK)	<0.0024		0.0053	0.0024	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Carbon disulfide	<0.0011		0.0053	0.0011	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Chlorobenzene	<0.00078		0.0021	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Chloroethane	<0.0016	*	0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Chloroform	<0.00073		0.0021	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Chloromethane	<0.0021		0.0053	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
cis-1,3-Dichloropropene	<0.00064		0.0021	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Dibromochloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,1-Dichloroethane	<0.00073		0.0021	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,2-Dichloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,1-Dichloroethene	<0.00073		0.0021	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,3-Dichloropropene, Total	<0.00074		0.0021	0.00074	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
2-Hexanone	<0.0017		0.0053	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Methylene Chloride	<0.0021		0.0053	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Methyl tert-butyl ether	<0.00062		0.0021	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Styrene	<0.00064		0.0021	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,1,2,2-Tetrachloroethane	<0.00068		0.0021	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Tetrachloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
trans-1,2-Dichloroethene	<0.00094		0.0021	0.00094	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
trans-1,3-Dichloropropene	<0.00074		0.0021	0.00074	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,1,1-Trichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
1,1,2-Trichloroethane	<0.00091		0.0021	0.00091	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Trichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Vinyl acetate	<0.0018		0.0053	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Vinyl chloride	<0.00094		0.0021	0.00094	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1
Xylenes, Total	<0.00068		0.0042	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*01/14/20 17:12*	*01/21/20 12:45*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*01/14/20 17:12*	*01/21/20 12:45*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/14/20 17:12*	*01/21/20 12:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Benzo[a]anthracene	**0.0082**	**J**	0.038	0.0051	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-1-B02 (0-6)
Date Collected: 01/14/20 09:35
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-2
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.0075**	**J**	0.038	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Bis(2-chloroethyl)ether	<0.057	*	0.19	0.057	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Chrysene	**0.017**	**J**	0.038	0.010	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Fluoranthene	**0.015**	**J**	0.038	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1

Client Sample ID: 2789V-1-B02 (0-6)

Date Collected: 01/14/20 09:35
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-2

Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
N-Nitrosodi-n-propylamine	<0.046		0.077	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,2'-oxybis[1-chloropropane]	<0.044	*	0.19	0.044	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Phenanthrene	**0.016**	**J**	0.038	0.0053	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
Pyrene	**0.015**	**J**	0.038	0.0076	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*43 - 145*	*01/21/20 18:38*	*01/22/20 14:13*	*1*
2-Fluorophenol	*91*		*31 - 166*	*01/21/20 18:38*	*01/22/20 14:13*	*1*
Nitrobenzene-d5	*79*		*37 - 147*	*01/21/20 18:38*	*01/22/20 14:13*	*1*
Phenol-d5	*93*		*30 - 153*	*01/21/20 18:38*	*01/22/20 14:13*	*1*
Terphenyl-d14	*103*		*42 - 157*	*01/21/20 18:38*	*01/22/20 14:13*	*1*
2,4,6-Tribromophenol	*74*		*31 - 143*	*01/21/20 18:38*	*01/22/20 14:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Arsenic	**8.4**		0.60	0.21	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Barium	**77**		0.60	0.069	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Beryllium	**0.74**		0.24	0.056	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Cadmium	**0.40**	**B**	0.12	0.022	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Chromium	**16**		0.60	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Cobalt	**11**		0.30	0.079	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Copper	**27**		0.60	0.17	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Iron	**20000**	**B**	12	6.3	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Lead	**18**		0.30	0.14	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Magnesium	**16000**		6.0	3.0	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Calcium	**26000**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Manganese	**320**	**B**	0.60	0.087	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Nickel	**29**		0.60	0.18	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Silver	**2.7**		0.30	0.078	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Thallium	**1.8**		0.60	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Vanadium	**23**		0.30	0.071	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Zinc	**68**		1.2	0.53	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Potassium	**1700**		30	11	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	1
Sodium	**92**		60	8.9	mg/Kg	☼	01/16/20 16:28	01/17/20 20:53	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		01/20/20 07:41	01/20/20 18:09	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:09	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:09	1

Client Sample ID: 2789V-1-B02 (0-6) **Lab Sample ID: 500-176313-2**
Date Collected: 01/14/20 09:35 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**370**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:09	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:09	1
Magnesium	**92**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:09	1
Manganese	**0.14**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Potassium	**1.1**	**J**	2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:09	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:09	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1
Zinc	<0.020		0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:09	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		01/20/20 07:41	01/20/20 19:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:13	1

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		01/21/20 14:00	01/22/20 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.019	0.0063	mg/Kg	☼	01/17/20 14:20	01/20/20 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.45	0.23	mg/Kg	☼	01/21/20 09:05	01/21/20 13:08	1
pH	**7.6**	**H**	0.2	0.2	SU			01/23/20 22:45	1

Client Sample ID: 2789V-1-B04 (0-6)
Date Collected: 01/14/20 10:05
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-4
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.052**		0.019	0.0082	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Carbon disulfide	<0.00098		0.0047	0.00098	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Chloroethane	<0.0014	*	0.0047	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Ethylbenzene	<0.00090		0.0019	0.00090	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Methylene Chloride	<0.0019		0.0047	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1
Xylenes, Total	<0.00060		0.0038	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/14/20 17:12*	*01/21/20 13:37*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*01/14/20 17:12*	*01/21/20 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*01/14/20 17:12*	*01/21/20 13:37*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/14/20 17:12*	*01/21/20 13:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Benzo[a]anthracene	**0.025**	**J**	0.041	0.0056	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-1-B04 (0-6)
Date Collected: 01/14/20 10:05
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-4
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.029**	**J**	0.041	0.0080	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Benzo[b]fluoranthene	**0.045**		0.041	0.0089	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.041	0.013	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Benzo[k]fluoranthene	**0.018**	**J**	0.041	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Bis(2-chloroethyl)ether	<0.062	*	0.21	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Chrysene	**0.030**	**J**	0.041	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Fluoranthene	**0.052**		0.041	0.0077	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Hexachlorobenzene	<0.0096		0.083	0.0096	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Indeno[1,2,3-cd]pyrene	**0.013**	**J**	0.041	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1

Client Sample ID: 2789V-1-B04 (0-6) **Lab Sample ID: 500-176313-4**
Date Collected: 01/14/20 10:05 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
N-Nitrosodi-n-propylamine	<0.051		0.083	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,2'-oxybis[1-chloropropane]	<0.048	*	0.21	0.048	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Phenanthrene	**0.022**	**J**	0.041	0.0058	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
Pyrene	**0.044**		0.041	0.0082	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	01/21/20 18:38	01/22/20 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*43 - 145*	*01/21/20 18:38*	*01/22/20 15:04*	*1*
2-Fluorophenol	*83*		*31 - 166*	*01/21/20 18:38*	*01/22/20 15:04*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*01/21/20 18:38*	*01/22/20 15:04*	*1*
Phenol-d5	*85*		*30 - 153*	*01/21/20 18:38*	*01/22/20 15:04*	*1*
Terphenyl-d14	*98*		*42 - 157*	*01/21/20 18:38*	*01/22/20 15:04*	*1*
2,4,6-Tribromophenol	*61*		*31 - 143*	*01/21/20 18:38*	*01/22/20 15:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Arsenic	**10**		0.61	0.21	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Barium	**93**		0.61	0.069	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Beryllium	**0.74**		0.24	0.057	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Cadmium	**0.38**	**B**	0.12	0.022	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Chromium	**18**		0.61	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Cobalt	**15**		0.30	0.080	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Copper	**27**		0.61	0.17	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Iron	**23000**	**B**	12	6.3	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Lead	**20**		0.30	0.14	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Magnesium	**15000**		6.1	3.0	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Calcium	**23000**	**B**	12	2.1	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Manganese	**600**	**B**	0.61	0.088	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Nickel	**32**		0.61	0.18	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Silver	**3.0**		0.30	0.078	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Thallium	**2.1**		0.61	0.30	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Vanadium	**26**		0.30	0.072	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Zinc	**66**		1.2	0.53	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Potassium	**1900**		30	11	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	1
Sodium	**89**		61	9.0	mg/Kg	☼	01/16/20 16:28	01/17/20 21:14	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		01/20/20 07:41	01/20/20 18:18	1
Barium	**0.52**		0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:18	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:18	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-1-B04 (0-6)
Date Collected: 01/14/20 10:05
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-4
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**320**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:18	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:18	1
Magnesium	**130**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:18	1
Manganese	**0.15**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Potassium	**1.4**	**J**	2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:18	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:18	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1
Zinc	**0.25**	**J**	0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:18	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		01/20/20 07:41	01/20/20 19:21	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:21	1

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		01/21/20 14:00	01/22/20 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.020	0.0065	mg/Kg	☼	01/17/20 14:20	01/20/20 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.49	0.25	mg/Kg	☼	01/21/20 09:05	01/21/20 13:10	1
pH	**7.4**	**H**	0.2	0.2	SU			01/23/20 22:52	1

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

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	IL00035	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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Copper
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Magnesium
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Vanadium
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8260B	5035	Solid	1,1,2-Trichloroethane
8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl acetate
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene
8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene
9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

388793 eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Mike Fischer	Site Contact:	Date: 1-14-20	COC No:
Company Name: EDI	Tel/Email: mfischer@envdesgn.com	Lab Contact: R. Weiner	Carrier:	1 of 1 COCs
Address: 33 W. Monroe, Ste. 1825	**Analysis Turnaround Time**			Sampler: M. Fischer
City/State/Zip: Chicago, IL 60603	☒ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone: 312-345-1400	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: PTB174-009-W066A	☐ 1 week			
Site: 2789V-1 (ISGS #)	☐ 2 days			Job / SDG No.: 500-176313
PO # 2031.001	☐ 1 day			

500-176313 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC	SVOC	Total 23 Inorgs.	TCLP 23 Inorgs.	Total Cyanide	pH	Sample Specific Notes:
1	2789V-1-B01 (0-6)	1-14-20	0920	G	S	5			X	X	X	X	X	X	
2	-B02 (0-6)		0935												
3	-B03 (0-6)		0950												
4	-B04 (0-6)		1005												

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.8 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	EDI	1-14-20 1225	[signature]	TA	1/14/20 1225
Relinquished by: [signature]	Company: TA	Date/Time: 1/14/20 1320	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA-CHI	Date/Time: 1/14/20 1320

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-176313-1

Login Number: 176313 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	4.8
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 <6mm (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 307 (IL 64): Pump Station 12 to Outlet Structur Office Phone Number, if available:

Physical Site Location (address, including number and street):
2600 block of West North Avenue (ISGS Site No. 2789V-2)

City: Melrose Park State: IL Zip Code: 60160

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: 41.90809 Longitude: -87.86806
(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.): 210

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.

Project Name: FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver C Latitude: 41.90809 Longitude: - 87.86806

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 2789V-2-B01 WAS SAMPLED AT SITE 2789V-2. 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]:

EUROFINS TEST AMERICA REPORT - JOB ID: 500-176313-1.
ALSO, SEE FIGURE 4-1 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:

2/26/20
Date:

P.E. or L.P.G. Seal:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL K. FISCHER
196.001462
ILLINOIS

Summary Table of ISGS Site No. 2789V-2
Detected Soil Analytes and Comparison with Applicable Criteria
Soil Analytical Results
IDOT Contract No: PTB 174-009; Work Order 066A
FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver Creek (ISGS Site No. 2789V-2)
Melrose Park and Franklin Park, Cook County, Illinois

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	2789V-2-B01 (0-6)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route				CCDD	Sample Depth (feet)	0 - 6
											Lab Sample ID	500-176313-5
										mg/kg	ISGS Site No.	2789V-2
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	pH 6.25-9.0	Date Collected	1/14/2020
Volatile Organic Analytical Parameters												
Acetone	mg/kg	70,000	100000	---	100000	25	*	---	---	25		0.051
Semivolatile Organic Analytical Parameters												
2-Methylnaphthalene	mg/kg	310	---	820	---	7.2	---	---	0.14	---		0.014
Acenaphthene	mg/kg	4,700	---	120,000	---	570	*	0.09	0.13	570		0.081
Acenaphthylene	mg/kg	2,300	---	61,000	---	85	---	0.03	0.07	85		0.0063
Anthracene	mg/kg	23,000	---	610,000	---	12,000	*	0.25	0.4	12,000		0.13
Benzo[a]anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		0.40
Benzo[a]pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		0.43
Benzo[b]fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		0.68
Benzo[g,h,i]perylene	mg/kg	2,300	---	61,000	---	27,000	---	0.68	1.7	2,300		0.15
Benzo[k]fluoranthene	mg/kg	9	---	1,700	---	49	*	0.99	1.7	9		0.30
Carbazole	mg/kg	32	---	6,200	---	0.6	---	---	---	0.6		0.14
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		0.46
Dibenz(a,h)anthracene	mg/kg	0.09	---	17	---	2	*	0.2	0.42	0.09		0.047
Dibenzofuran	mg/kg	160	---	4,100	---	6.1	---	---	---	---		0.051
Fluoranthene	mg/kg	3,100	---	82,000	---	4,300	*	2.7	4.1	3,100		1.1
Fluorene	mg/kg	3,100	---	82,000	---	560	*	0.1	0.18	560		0.079
Indeno[1,2,3-cd]pyrene	mg/kg	0.9	---	170	---	14	*	0.86	1.6	0.9		0.15
Naphthalene	mg/kg	1,600	170	4,100	1.8	12	*	0.04	0.2	1.8		0.023
Phenanthrene	mg/kg	2,300	---	61,000	---	200	---	1.3	2.5	210		0.83
Pyrene	mg/kg	2,300	---	61,000	---	4,200	*	1.9	3	2,300		0.90
Inorganic Analytical Parameters												
Antimony	mg/kg	31	---	82	---	---	*	---	4	5		0.25
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		65
Beryllium	mg/kg	160	1,300	410	44,000	---	*	---	0.59	22		0.77
Cadmium	mg/kg	78	1,800	200	59,000	---	*	---	0.6	5.2		0.45
Calcium	mg/kg	---	---	---	---	---	*	---	9,300	---		32000
Chromium	mg/kg	230	270	4,100	690	---	*	---	16.2	21		18
Cobalt	mg/kg	4,700	---	12,000	---	---	*	---	8.9	20		16
Copper	mg/kg	2,900	---	8,200	---	---	*	---	19.6	2,900		29
Iron	mg/kg	---	---	---	---	---	---	---	15,900	15,000		22000
Lead	mg/kg	400	---	700	---	---	*	---	36	107		27
Magnesium	mg/kg	325,000	---	730,000	---	---	*	---	4,820	325,000		20000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	---	636	630		500
Mercury	mg/kg	23	10	61	0.1	---	*	---	0.06	0.89		0.025
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	---	18	100		38
Potassium	mg/kg	---	---	---	---	---	---	---	1,268	---		2500
Silver	mg/kg	390	---	1,000	---	---	*	---	0.55	4.4		3.0
Sodium	mg/kg	---	---	---	---	---	*	---	130	---		98
Thallium	mg/kg	6	---	160	---	---	*	---	0.32	2.6		1.7
Vanadium	mg/kg	550	---	1,400	---	---	*	---	25.2	550		24
Zinc	mg/kg	23,000	---	61,000	---	---	*	---	95	5,100		71
pH										6.25 - 9.0		7.5
Inorganic Analytical Parameters (TCLP)												
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		ND
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.37
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		ND
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		ND
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		340
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	---	---	---	---	---	---	---	---	---		110
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.26
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		ND
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.2
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND
Thallium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		ND
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		ND
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		0.20
Inorganic Analytical Parameters (SPLP)												
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.22

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176313-1
Client Project/Site: IDOT - PTB 174-009 - WO 066

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

Attn: Michael Fischer

Authorized for release by:
1/24/2020 2:47:08 PM

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

Client Sample ID: 2789V-2-B01 (0-6) **Lab Sample ID: 500-176313-5**
Date Collected: 01/14/20 08:45 **Matrix: Solid**
Date Received: 01/14/20 13:20 **Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.051**		0.021	0.0092	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Benzene	<0.00054		0.0021	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Bromoform	<0.00062		0.0021	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Bromomethane	<0.0020		0.0053	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Carbon disulfide	<0.0011		0.0053	0.0011	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Chlorobenzene	<0.00078		0.0021	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Chloroethane	<0.0016	*	0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Chloroform	<0.00073		0.0021	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Chloromethane	<0.0021		0.0053	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
cis-1,3-Dichloropropene	<0.00064		0.0021	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Dibromochloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,1-Dichloroethane	<0.00072		0.0021	0.00072	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,2-Dichloroethane	<0.0016		0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,1-Dichloroethene	<0.00073		0.0021	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,3-Dichloropropene, Total	<0.00074		0.0021	0.00074	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
2-Hexanone	<0.0016		0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Methylene Chloride	<0.0021		0.0053	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0053	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Methyl tert-butyl ether	<0.00062		0.0021	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Styrene	<0.00064		0.0021	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Tetrachloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
trans-1,2-Dichloroethene	<0.00093		0.0021	0.00093	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
trans-1,3-Dichloropropene	<0.00074		0.0021	0.00074	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,1,1-Trichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
1,1,2-Trichloroethane	<0.00090		0.0021	0.00090	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Trichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Vinyl acetate	<0.0018		0.0053	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Vinyl chloride	<0.00093		0.0021	0.00093	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/14/20 17:12*	*01/21/20 14:02*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*01/14/20 17:12*	*01/21/20 14:02*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/14/20 17:12*	*01/21/20 14:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.081**		0.038	0.0069	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Acenaphthylene	**0.0063**	**J**	0.038	0.0051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Anthracene	**0.13**		0.038	0.0064	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Benzo[a]anthracene	**0.40**		0.038	0.0052	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1

Client Sample ID: 2789V-2-B01 (0-6)
Date Collected: 01/14/20 08:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-5
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.43**		0.038	0.0075	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Benzo[b]fluoranthene	**0.68**		0.038	0.0083	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Benzo[g,h,i]perylene	**0.15**		0.038	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Benzo[k]fluoranthene	**0.30**		0.038	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Bis(2-chloroethyl)ether	<0.058	*	0.19	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Carbazole	**0.14**	**J**	0.19	0.096	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Chrysene	**0.46**		0.038	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Dibenz(a,h)anthracene	**0.047**		0.038	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Dibenzofuran	**0.051**	**J**	0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Fluoranthene	**1.1**		0.038	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Fluorene	**0.079**		0.038	0.0054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Indeno[1,2,3-cd]pyrene	**0.15**		0.038	0.010	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Methylnaphthalene	**0.014**	**J**	0.078	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Naphthalene	**0.023**	**J**	0.038	0.0059	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1

Client Sample ID: 2789V-2-B01 (0-6)

Date Collected: 01/14/20 08:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-5

Matrix: Solid
Percent Solids: 82.7

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	☼	01/21/20 18:38	01/22/20 15:29	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,2'-oxybis[1-chloropropane]	<0.045	*	0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Phenanthrene	**0.83**		0.038	0.0054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
Pyrene	**0.90**		0.038	0.0077	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*43 - 145*	*01/21/20 18:38*	*01/22/20 15:29*	*1*
2-Fluorophenol	*86*		*31 - 166*	*01/21/20 18:38*	*01/22/20 15:29*	*1*
Nitrobenzene-d5	*75*		*37 - 147*	*01/21/20 18:38*	*01/22/20 15:29*	*1*
Phenol-d5	*88*		*30 - 153*	*01/21/20 18:38*	*01/22/20 15:29*	*1*
Terphenyl-d14	*96*		*42 - 157*	*01/21/20 18:38*	*01/22/20 15:29*	*1*
2,4,6-Tribromophenol	*58*		*31 - 143*	*01/21/20 18:38*	*01/22/20 15:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.25**	**J**	1.2	0.22	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Arsenic	**8.7**		0.58	0.20	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Barium	**65**		0.58	0.066	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Beryllium	**0.77**		0.23	0.054	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Cadmium	**0.45**	**B**	0.12	0.021	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Chromium	**18**		0.58	0.28	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Cobalt	**16**		0.29	0.075	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Copper	**29**		0.58	0.16	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Iron	**22000**	**B**	12	6.0	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Lead	**27**		0.29	0.13	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Magnesium	**20000**		5.8	2.9	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Calcium	**32000**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Manganese	**500**	**B**	0.58	0.083	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Nickel	**38**		0.58	0.17	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Silver	**3.0**		0.29	0.074	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Thallium	**1.7**		0.58	0.29	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Zinc	**71**		1.2	0.51	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Potassium	**2500**		29	10	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	1
Sodium	**98**		58	8.5	mg/Kg	☼	01/16/20 16:28	01/17/20 21:19	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		01/20/20 07:41	01/20/20 18:31	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:31	1

Client Sample ID: 2789V-2-B01 (0-6)
Date Collected: 01/14/20 08:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-5
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**340**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:31	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:31	1
Magnesium	**110**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:31	1
Manganese	**0.26**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Potassium	**1.2**	**J**	2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:31	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:31	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:31	1
Zinc	**0.20**	**J**	0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.22**		0.025	0.010	mg/L		01/21/20 15:05	01/22/20 09:16	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		01/20/20 07:41	01/20/20 19:23	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:23	1

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		01/21/20 14:00	01/22/20 10:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0063	mg/Kg	☼	01/17/20 14:20	01/20/20 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.42	0.21	mg/Kg	☼	01/21/20 09:05	01/21/20 13:10	1
pH	**7.5**	**H**	0.2	0.2	SU			01/23/20 22:55	1

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

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	IL00035	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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Copper
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Magnesium
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Vanadium
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8260B	5035	Solid	1,1,2-Trichloroethane
8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl acetate
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene
8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene
9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

423029 eurofins | Environment Testing TestAmerica

TAL-8210

Address: _____ Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Fischer	Site Contact:	Date: 1-14-20	COC No:
Company Name: EDI	Tel/Email: mfischer@envdesignmi.com	Lab Contact: R. Wright	Carrier:	1 of 1 COCs
Address: 33 W. Monroe, Ste. 1825	Analysis Turnaround Time			Sampler: M. Fischer
City/State/Zip: Chicago, IL 60603	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 312-345-1400	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: PTB 174-009-W066A	☐ 1 week			Job / SDG No.: 500-176313
Site: 2789V-2 (ISGS #)	☐ 2 days			
PO# 2031.001	☐ 1 day			Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC	SVOC	Total 23 Inorg.	TCLP 23 Inorg.	Total Cyanide	PH
5 2789V-2-B01 (0-6)	1-14-20	0845	G	S	5			X	X	X	X	X	X

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company: EDI	Date/Time: 1-14-20 1225	Received by:	Company: TA	Date/Time: 1/14/20 1225
Relinquished by:	Company: TA 1/14/20	Date/Time: 1320	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-CHI	Date/Time: 1/14/20 1320

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-176313-1

Login Number: 176313 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	4.8
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 <6mm (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 307 (IL 64): Pump Station 12 to Outlet Structur Office Phone Number, if available:

Physical Site Location (address, including number and street):
2407-2457 West North Avenue (ISGS Site No. 2789V-10)

City: Melrose Park State: IL Zip Code: 60160

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: 41.91151 (Decimal Degrees) Longitude: -87.86427 (-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.): 106

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.

Project Name: FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver C Latitude: 41.91151 Longitude: - 87.86427

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 2789V-10-B01 WAS SAMPLED AT SITE 2789V-10. SEE FIGURE 3-2 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]:

EUROFINS TEST AMERICA REPORT - JOB ID: 500-176313-1.
ALSO, SEE FIGURE 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.

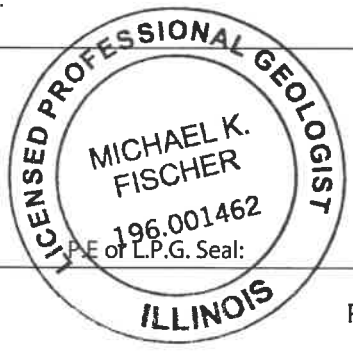
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

M-17A
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/26/20
Date:



P.E or L.P.G. Seal:

Summary Table of ISGS Site No. 2789V-10
Detected Soil Analytes and Comparison with Applicable Criteria
Soil Analytical Results
IDOT Contract No: PTB 174-009; Work Order 066A
FAP 307 (IL 64): Pump Station 12 to Outlet Structure at Silver Creek (ISGS Site No. 2789V-10)
Melrose Park and Franklin Park, Cook County, Illinois

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	2789V-10-B01 (0-6)	2789V-10-B01 (0-6) DUP
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route				CCDD	Sample Depth (feet)	0 - 6	0 - 6
											Lab Sample ID	500-176313-6	500-176313-7
										mg/kg	ISGS Site No.	2789V-10	2789V-10
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	pH 6.25-9.0	Date Collected	1/14/2020	1/14/2020
Volatile Organic Analytical Parameters													
Acetone	mg/kg	70,000	100000	---	100000	25	*	---	---	25		0.018	0.039
Semivolatile Organic Analytical Parameters													
2-Methylnaphthalene	mg/kg	310	---	820	---	7.2	---	---	0.14	---		ND	0.018
Acenaphthene	mg/kg	4,700	---	120,000	---	570	*	0.09	0.13	570		ND	0.011
Anthracene	mg/kg	23,000	---	610,000	---	12,000	*	0.25	0.4	12,000		ND	0.018
Benzo[a]anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		0.020	0.035
Benzo[a]pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		ND	0.034
Benzo[b]fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		0.040	0.065
Benzo[g,h,i]perylene	mg/kg	2,300	---	61,000	---	27,000	---	0.68	1.7	2,300		0.021	0.023
Benzo[k]fluoranthene	mg/kg	9	---	1,700	---	49	*	0.99	1.7	9		0.018	0.023
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		0.046	0.054
Fluoranthene	mg/kg	3,100	---	82,000	---	4,300	*	2.7	4.1	3,100		0.045	0.12
Indeno[1,2,3-cd]pyrene	mg/kg	0.9	---	170	---	14	*	0.86	1.6	0.9		ND	0.015
Naphthalene	mg/kg	1,600	170	4,100	1.8	12	*	0.04	0.2	1.8		ND	0.025
Phenanthrene	mg/kg	2,300	---	61,000	---	200	---	1.3	2.5	210		0.037	0.25
Pyrene	mg/kg	2,300	---	61,000	---	4,200	*	1.9	3	2,300		0.066	0.11
Inorganic Analytical Parameters													
Antimony	mg/kg	31	---	82	---	---	*	---	4	5		0.27	0.41
Arsenic	mg/kg	13	750	61	25,000	---	*	---	13	11.3		9.9	8.5
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	---	110	1,500		65	51
Beryllium	mg/kg	160	1,300	410	44,000	---	*	---	0.59	22		0.65	0.63
Cadmium	mg/kg	78	1,800	200	59,000	---	*	---	0.6	5.2		0.52	0.62
Calcium	mg/kg	---	---	---	---	---	*	---	9,300	---		32000	52000
Chromium	mg/kg	230	270	4,100	690	---	*	---	16.2	21		20	16
Cobalt	mg/kg	4,700	---	12,000	---	---	*	---	8.9	20		15	13
Copper	mg/kg	2,900	---	8,200	---	---	*	---	19.6	2,900		29	26
Iron	mg/kg	---	---	---	---	---	---	---	15,900	15,000		20000	19000
Lead	mg/kg	400	---	700	---	---	*	---	36	107		30	20
Magnesium	mg/kg	325,000	---	730,000	---	---	*	---	4,820	325,000		19000	24000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	---	636	630		560	430
Mercury	mg/kg	23	10	61	0.1	---	*	---	0.06	0.89		0.023	0.017
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	---	18	100		33	31
Potassium	mg/kg	---	---	---	---	---	---	---	1,268	---		2200	2400
Silver	mg/kg	390	---	1,000	---	---	*	---	0.55	4.4		2.8	2.4
Sodium	mg/kg	---	---	---	---	---	*	---	130	---		130	150
Thallium	mg/kg	6	---	160	---	---	*	---	0.32	2.6		1.9	1.4
Vanadium	mg/kg	550	---	1,400	---	---	*	---	25.2	550		23	20
Zinc	mg/kg	23,000	---	61,000	---	---	*	---	95	5,100		70	69
pH										6.25 - 9.0		7.6	7.7
Inorganic Analytical Parameters (TCLP)													
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		ND	ND
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	ND
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.55	0.61
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		ND	ND
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		0.0020	0.0030
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		410	400
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND	ND
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		ND	ND
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		ND	ND
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		ND	ND
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		ND	ND
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		80	79
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.71	0.56
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		ND	ND
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND	ND
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		2.5	2.3
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	ND
Thallium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		ND	ND
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		ND	ND
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		0.023	0.23
Inorganic Analytical Parameters (SPLP)													
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.32	0.31

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176313-1
Client Project/Site: IDOT - PTB 174-009 - WO 066

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

Attn: Michael Fischer

Authorized for release by:
1/24/2020 2:47:08 PM

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

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-10-B01 (0-6)
Date Collected: 01/14/20 10:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.018**		0.016	0.0070	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Chloroethane	<0.0012	*	0.0040	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*01/14/20 17:12*	*01/21/20 14:27*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*01/14/20 17:12*	*01/21/20 14:27*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/14/20 17:12*	*01/21/20 14:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Benzo[a]anthracene	**0.020**	**J**	0.039	0.0052	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-10-B01 (0-6)
Date Collected: 01/14/20 10:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Benzo[b]fluoranthene	**0.040**		0.039	0.0084	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Benzo[g,h,i]perylene	**0.021**	**J**	0.039	0.013	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Benzo[k]fluoranthene	**0.018**	**J**	0.039	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Bis(2-chloroethyl)ether	<0.058	*	0.20	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Chrysene	**0.046**		0.039	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Fluoranthene	**0.045**		0.039	0.0072	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-10-B01 (0-6)
Date Collected: 01/14/20 10:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-6
Matrix: Solid
Percent Solids: 84.6

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	☼	01/21/20 18:38	01/22/20 15:54	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,2'-oxybis[1-chloropropane]	<0.045	*	0.20	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Phenanthrene	**0.037**	**J**	0.039	0.0054	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
Pyrene	**0.066**		0.039	0.0077	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*43 - 145*	*01/21/20 18:38*	*01/22/20 15:54*	*1*
2-Fluorophenol	*95*		*31 - 166*	*01/21/20 18:38*	*01/22/20 15:54*	*1*
Nitrobenzene-d5	*84*		*37 - 147*	*01/21/20 18:38*	*01/22/20 15:54*	*1*
Phenol-d5	*94*		*30 - 153*	*01/21/20 18:38*	*01/22/20 15:54*	*1*
Terphenyl-d14	*107*		*42 - 157*	*01/21/20 18:38*	*01/22/20 15:54*	*1*
2,4,6-Tribromophenol	*68*		*31 - 143*	*01/21/20 18:38*	*01/22/20 15:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.27**	**J**	1.1	0.22	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Arsenic	**9.9**		0.57	0.19	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Barium	**65**		0.57	0.065	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Beryllium	**0.65**		0.23	0.053	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Cadmium	**0.52**	**B**	0.11	0.020	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Chromium	**20**		0.57	0.28	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Cobalt	**15**		0.28	0.074	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Copper	**29**		0.57	0.16	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Iron	**20000**	**B**	11	5.9	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Lead	**30**		0.28	0.13	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Magnesium	**19000**		5.7	2.8	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Calcium	**32000**	**B**	11	1.9	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Manganese	**560**	**B**	0.57	0.082	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Nickel	**33**		0.57	0.17	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Silver	**2.8**		0.28	0.073	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Thallium	**1.9**		0.57	0.28	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Vanadium	**23**		0.28	0.067	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Zinc	**70**		1.1	0.50	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Potassium	**2200**		28	10	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	1
Sodium	**130**		57	8.4	mg/Kg	☼	01/16/20 16:28	01/17/20 21:23	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		01/20/20 07:41	01/20/20 18:36	1
Barium	**0.55**		0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:36	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:36	1

Client Sample ID: 2789V-10-B01 (0-6)
Date Collected: 01/14/20 10:45
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**410**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:36	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:36	1
Magnesium	**80**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:36	1
Manganese	**0.71**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Potassium	**2.5**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:36	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:36	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:36	1
Zinc	**0.023**	**J**	0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.32**		0.025	0.010	mg/L		01/21/20 15:05	01/22/20 09:20	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		01/20/20 07:41	01/20/20 19:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:25	1

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		01/21/20 14:00	01/22/20 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.018	0.0061	mg/Kg	☼	01/17/20 14:20	01/20/20 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.52	0.26	mg/Kg	☼	01/21/20 11:45	01/21/20 13:47	1
pH	**7.6**	**H**	0.2	0.2	SU			01/23/20 22:58	1

Client Sample ID: 2789V-10-B01 (0-6) Dup

Lab Sample ID: 500-176313-7
Date Collected: 01/14/20 10:50
Matrix: Solid
Date Received: 01/14/20 13:20
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.039**		0.024	0.011	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Benzene	<0.00062		0.0024	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Bromodichloromethane	<0.00049		0.0024	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Bromoform	<0.00071		0.0024	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Bromomethane	<0.0023		0.0061	0.0023	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Carbon disulfide	<0.0013		0.0061	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Carbon tetrachloride	<0.00070		0.0024	0.00070	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Chlorobenzene	<0.00089		0.0024	0.00089	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Chloroethane	<0.0018	*	0.0061	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Chloroform	<0.00084		0.0024	0.00084	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Chloromethane	<0.0024		0.0061	0.0024	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
cis-1,2-Dichloroethene	<0.00068		0.0024	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
cis-1,3-Dichloropropene	<0.00073		0.0024	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Dibromochloromethane	<0.00079		0.0024	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,1-Dichloroethane	<0.00083		0.0024	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,2-Dichloroethane	<0.0019		0.0061	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,1-Dichloroethene	<0.00083		0.0024	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,3-Dichloropropene, Total	<0.00085		0.0024	0.00085	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Ethylbenzene	<0.0012		0.0024	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
2-Hexanone	<0.0019		0.0061	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Methylene Chloride	<0.0024		0.0061	0.0024	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0018		0.0061	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Methyl tert-butyl ether	<0.00071		0.0024	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Styrene	<0.00073		0.0024	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,1,2,2-Tetrachloroethane	<0.00077		0.0024	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Tetrachloroethene	<0.00083		0.0024	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Toluene	<0.00061		0.0024	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
trans-1,2-Dichloroethene	<0.0011		0.0024	0.0011	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
trans-1,3-Dichloropropene	<0.00085		0.0024	0.00085	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,1,1-Trichloroethane	<0.00081		0.0024	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
1,1,2-Trichloroethane	<0.0010		0.0024	0.0010	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Trichloroethene	<0.00082		0.0024	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Vinyl acetate	<0.0021		0.0061	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Vinyl chloride	<0.0011		0.0024	0.0011	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1
Xylenes, Total	<0.00078		0.0048	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*01/14/20 17:12*	*01/21/20 14:52*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*01/14/20 17:12*	*01/21/20 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*01/14/20 17:12*	*01/21/20 14:52*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/14/20 17:12*	*01/21/20 14:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.038	0.0069	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Anthracene	**0.018**	**J**	0.038	0.0064	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Benzo[a]anthracene	**0.035**	**J**	0.038	0.0052	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 066

Job ID: 500-176313-1

Client Sample ID: 2789V-10-B01 (0-6) Dup
Date Collected: 01/14/20 10:50
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-7
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.034**	**J**	0.038	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Benzo[b]fluoranthene	**0.065**		0.038	0.0083	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Benzo[g,h,i]perylene	**0.023**	**J**	0.038	0.012	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Benzo[k]fluoranthene	**0.023**	**J**	0.038	0.011	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Bis(2-chloroethyl)ether	<0.057	*	0.19	0.057	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Chrysene	**0.054**		0.038	0.010	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4-Dinitrophenol	<0.68		0.77	0.68	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Fluoranthene	**0.12**		0.038	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Indeno[1,2,3-cd]pyrene	**0.015**	**J**	0.038	0.0099	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Methylnaphthalene	**0.018**	**J**	0.077	0.0071	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Naphthalene	**0.025**	**J**	0.038	0.0059	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1

Client Sample ID: 2789V-10-B01 (0-6) Dup

Date Collected: 01/14/20 10:50
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-7

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,2'-oxybis[1-chloropropane]	<0.044	*	0.19	0.044	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Pentachlorophenol	<0.62		0.77	0.62	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Phenanthrene	**0.25**		0.038	0.0053	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
Pyrene	**0.11**		0.038	0.0076	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	01/21/20 18:38	01/22/20 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*43 - 145*	*01/21/20 18:38*	*01/22/20 16:19*	*1*
2-Fluorophenol	*83*		*31 - 166*	*01/21/20 18:38*	*01/22/20 16:19*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*01/21/20 18:38*	*01/22/20 16:19*	*1*
Phenol-d5	*83*		*30 - 153*	*01/21/20 18:38*	*01/22/20 16:19*	*1*
Terphenyl-d14	*95*		*42 - 157*	*01/21/20 18:38*	*01/22/20 16:19*	*1*
2,4,6-Tribromophenol	*52*		*31 - 143*	*01/21/20 18:38*	*01/22/20 16:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J**	1.1	0.21	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Arsenic	**8.5**		0.54	0.18	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Barium	**51**		0.54	0.061	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Beryllium	**0.63**		0.22	0.050	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Cadmium	**0.62**	**B**	0.11	0.019	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Chromium	**16**		0.54	0.27	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Cobalt	**13**		0.27	0.070	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Copper	**26**		0.54	0.15	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Iron	**19000**	**B**	11	5.6	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Lead	**20**		0.27	0.12	mg/Kg	☼	01/16/20 16:28	01/20/20 15:48	1
Magnesium	**24000**		5.4	2.7	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Calcium	**52000**	**B**	110	18	mg/Kg	☼	01/16/20 16:28	01/20/20 15:52	10
Manganese	**430**	**B**	0.54	0.078	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Nickel	**31**		0.54	0.16	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Silver	**2.4**		0.27	0.069	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Thallium	**1.4**		0.54	0.27	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Vanadium	**20**		0.27	0.063	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Zinc	**69**		1.1	0.47	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Potassium	**2400**		27	9.5	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	1
Sodium	**150**		54	8.0	mg/Kg	☼	01/16/20 16:28	01/17/20 21:27	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		01/20/20 07:41	01/20/20 18:54	1
Barium	**0.61**		0.50	0.050	mg/L		01/20/20 07:41	01/20/20 18:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:41	01/20/20 18:54	1
Cadmium	**0.0030**	**J**	0.0050	0.0020	mg/L		01/20/20 07:41	01/20/20 18:54	1

Client Sample ID: 2789V-10-B01 (0-6) Dup

Date Collected: 01/14/20 10:50
Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-7

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**400**		5.0	0.50	mg/L		01/20/20 07:41	01/20/20 18:54	1
Chromium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Cobalt	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Copper	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Iron	<0.20		0.40	0.20	mg/L		01/20/20 07:41	01/20/20 18:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:41	01/20/20 18:54	1
Magnesium	**79**		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:54	1
Manganese	**0.56**		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Potassium	**2.3**	**J**	2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:54	1
Selenium	<0.020	*	0.050	0.020	mg/L		01/20/20 07:41	01/20/20 18:54	1
Silver	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Vanadium	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:54	1
Zinc	**0.23**	**J**	0.50	0.020	mg/L		01/20/20 07:41	01/20/20 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.31**		0.025	0.010	mg/L		01/21/20 15:05	01/22/20 09:24	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		01/20/20 07:41	01/20/20 19:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:33	1

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		01/21/20 14:00	01/22/20 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0059	mg/Kg	☼	01/17/20 14:20	01/20/20 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.53	0.26	mg/Kg	☼	01/21/20 11:45	01/21/20 13:48	1
pH	**7.7**	**H**	0.2	0.2	SU			01/23/20 23:02	1

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

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	IL00035	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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Copper
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Magnesium
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Vanadium
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8260B	5035	Solid	1,1,2-Trichloroethane
8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl acetate
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene
8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene

Accreditation/Certification Summary

Client: Environmental Design International, Inc. Job ID: 500-176313-1
Project/Site: IDOT - PTB 174-009 - WO 066

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

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

8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene
9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

388794

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Mike Fischer	Site Contact:	Date: 1-14-20	COC No:
Company Name: EDI	Tel/Email: mfischer@envdesign.com	Lab Contact: R. Weisnet	Carrier:	1 of 1 COCs
Address: 33 W. Monroe, ste. 1825	**Analysis Turnaround Time**			Sampler: M. Fischer
City/State/Zip: Chicago, IL 60603	☒ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone: 312-345-1400	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: PTD 174-009-WO 66A	☐ 1 week			
Site: 2789V-10 (1565 #)	☐ 2 days			Job / SDG No.: 500-176313
PO # 2031.001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC	SVOC	Total 27 Inorg	TCLP 23 Inorg	Total Cyanide	pH
2789V-10-B01 (0-6)	1-14-20	1045	G	S	5			X	X	X	X	X	X
" -B01 (0-6) D	"	1050	"	"	"			X	X	X	X	X	X

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	EDI	1-14-20 1225	Received by:	IA	1/14/20 1225
Relinquished by:	IA 1/14/20	1320	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: IA-CHT	Date/Time: 1/14/20 1320

Login Sample Receipt Checklist

Client: Environmental Design International, Inc. Job Number: 500-176313-1

Login Number: 176313 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	4.8
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	