

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 III. 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 III. 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 O	utlet Structur 📻 Office Phone Numbe	er, if available:
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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 ir	n decimal degrees (DD.	ddddd) to five decima	l places (e.g., 40.67890, -90.12345):	
Latitude:	41.91115 Longitude	: - 87.86498	_		
	(Decimal Degrees)	(-Decimal Degrees)		
Identify h	ow the lat/long data were deter	mined:			
O GPS	\bigcirc Map Interpolation \bigcirc F	Photo Interpolation	Survey 🕢 Other		
Google E	Earth				
IEPA Site	Number(s), if assigned: BC	DL:	BOW:	BOA:	
Approxim	nate Start Date (mm/dd/yyyy):	TBD	_ Approximate End D	ate (mm/dd/yyyy): TBD	
Estimate	d Volume of debris (cu. Yd.):	376	_		

II. Owner/Operator Information for Source Site

Site Owner Site Operator Illinois Department of Transportation Name: Name: Illinois Department of Transportation 201 West Center Court 201 West Center Court Street Address: Street Address: PO Box: PO Box: City: Schaumburg State: IL City: Schaumburg State: IL 60196 847-705-4122 Zip Code: 60196 Phone: 847-705-4122 Zip Code: Phone: Irma Romiti-Johnson Contact: Contact: Irma Romiti-Johnson irma.romiti-johnson@illinois.gov Email, if available: Email, if available: irma.romiti-johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. 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 III. 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 III. 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. <u>Michael Fischer</u> (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 III. 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	Environmental Design International inc.										
Street Address:	33 West Monroe Street	t, Suite 1825										
City:	Chicago	State: II	L	Zip Code: 60603								
Phone:	312-345-1400											

Michael Fischer Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

200 FESSIONAL CR ENSED 6 MICHAELK FISCHER G $\overline{\mathbf{S}}$ 196.001462 EE or L.P.G. Seal: ILLINO' Page 2 of 2

Uncontaminated Soil Certification

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

		IEPA Tier 1 Soil Remediation Objectives						Maximum Allowed	Field Sample ID	2789V-1-B01 (0-6)	2789V-1-B02 (0-6)	2789V-1-B04 (0-6)		
Analyte	Units	Pasidontia	Proportion	Constructi	on Workers	Soil Component of the	ADL	Backg	round	concentration	Sample Depth (feet)	0 - 6	0 - 6	0 - 6
		Residentia	Fropenties	Constructi	on workers	Groundwater				CCDD	Lab Sample ID	500-176313-1	500-176313-2	500-176313-4
						Ingestion Route				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	ma/ka	70.000	100000		100000	25	*			25		0.016	ND	0.052
Semivolatile Organic Analytical Parameters														
2-Methylnaphthalene	ma/ka	310		820		72			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
Benzolo jiluorantnene Benzolo hilpen/ene	mg/kg	2 300		61,000		5 27.000		1.5	2.1	2 300		0.050	ND	0.045
Benzo[k]fluoranthene	mg/kg	9		1.700		49	*	0.99	1.7	9		0.023	ND	0.014
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
Prenanthrene	mg/kg	2,300		61,000		200	*	1.3	2.5	210		0.045	0.016	0.022
norganic Analytical Baramotore	mg/kg	2,300		01,000		4,200		1.3	5	2,300		0.055	0.015	0.044
	ma/ka	12	750	61	25.000		*		12	11.2		8.0	0.4	10
Barium	ma/ka	5.500	690,000	14,000	870.000		*		110	1.500		89	0.4 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
Copper	mg/kg	4,700		12,000			*		8.9	20		14	11	15
Iron	ma/ka	2,300		0,200					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
Potassium	mg/kg mg/kg	1,000	13,000	4,100	440,000				1 268	100		34	29	32 1900
Selenium	ma/ka	390		1.000			*		0.48	1.3		ND	ND	ND
Silver	mg/kg	390	1	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 Zine	mg/kg	550		1,400			*		25.2	550		27	23	26
pH	mg/kg	23,000		61,000					95	6 25 - 9 0		7.2	7.6	7.4
Inorganic Analytical Baramotors (TCLB)										0.20 - 0.0		1.2	7.0	1.4
	ma/l					0.05						ND	ND	ND
Barium TCLP	mg/L					0.05						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, I CLP	mg/L					1						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
NICKEI, I OLP Potassium TCLP	mg/L					0.1						1 3	NU 1.1	1.4
Selenium TCLP	ma/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, I CLP	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

🛟 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

Rill W

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

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

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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

Client Sample ID: 2789V-1-B01 (0-6) Date Collected: 01/14/20 09:20 Date Received: 01/14/20 13:20

Job ID: 500-176313-1

Lab Sample ID: 500-176313-1 Matrix: Solid

Percent Solids: 77.5

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
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	6
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	8
Carbon disulfide	<0.0012		0.0055	0.0012	mg/Kg	¢	01/14/20 17:12	01/21/20 12:20	1	U
Carbon tetrachloride	<0.00064		0.0022	0.00064	mg/Kg	¢	01/14/20 17:12	01/21/20 12:20	1	0
Chlorobenzene	<0.00082		0.0022	0.00082	mg/Kg	¢	01/14/20 17:12	01/21/20 12:20	1	3
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	13
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	ф	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	ф	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	

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

102

Toluene-d8 (Surr)

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	<u> </u>	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

75 - 124

Eurofins TestAmerica, Chicago

01/14/20 17:12 01/21/20 12:20

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

Client Sample ID: 2789V-1-B01 (0-6) Date Collected: 01/14/20 09:20 Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-1 Matrix: Solid

Percent Solids: 77.5

Method: 8270D - Semivo Analyte	latile Organic Co Result	mpounds Qualifier	(GC/MS) (Cor RL	ntinued) MDL) Unit	D	Prepared	Analyzed	Dil Fac	5
Benzo[a]pyrene	0.031	J	0.042	0.0082	mg/Kg	<u> </u>	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	6
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	9
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	6
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	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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

Client Sample ID: 2789V-1-B01 (0-6) Date Collected: 01/14/20 09:20 Date Received: 01/14/20 13:20

Lab Sample ID: 500-176313-1 Matrix: Solid

Percent Solids: 77.5

5

6

Method: 8270D - Semivolatile	Organic Co	mpounds	(GC/MS) (Co	ontinued)	_	Durand	A	D11 E
Analyte	Result	Qualifier	RL	MDL	Unit	U	Prepared	Analyzed	DIIFac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	ۍد د د د د د د	01/21/20 18:38	01/22/20 13:48	1
N-Nitrosodi-n-propylamine	< 0.052		0.085	0.052	mg/Kg	1¢	01/21/20 18:38	01/22/20 13:48	1
N-Nitrosodiphenylamine	< 0.050		0.21	0.050	mg/Kg	-7: -7:	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	æ.	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
Mothod: 6010B - Motals (ICP)									
Analyte	Result	Qualifier	RI	МП	Unit	р	Prenared	Analyzed	Dil Fac
Antimony	<0.24	F1	12	0.24	ma/Ka	— -	01/16/20 16:28	$\frac{1}{01/17/20} \frac{20.31}{20.31}$	1
Arsonic	8.0		0.60	0.21	ma/Ka	¢	01/16/20 16:28	01/17/20 20:31	1
Barium	89		0.60	0.069	ma/Ka	÷	01/16/20 16:28	01/17/20 20:31	1
Beryllium	0.78		0.00	0.056	ma/Ka	ġ.	01/16/20 16:28	01/17/20 20:31	
Cadmium	0.70	E1 B	0.12	0.000	ma/Ka	÷	01/16/20 16:28	01/17/20 20:31	1
Chromium	0.40	FTD .	0.12	0.022	mg/Kg	÷Či-	01/16/20 16:28	01/17/20 20:31	1
Cobalt	13		0.00	0.30	mg/Kg		01/16/20 16:28	01/17/20 20:31	
Copper	14		0.50	0.073	mg/Kg	-0	01/16/20 16:28	01/17/20 20:31	1
liton	24	в	12	63	mg/Kg	-0-	01/16/20 16:28	01/17/20 20:31	1
Lood	21000	D E4	0.30	0.5	mg/Kg		01/16/20 16:28	01/17/20 20:31	
Magnacium	22 6000	F1 F2	6.0	2.0	mg/Kg	-0	01/16/20 16:28	01/17/20 20:31	1
Calaium	7200	F2 F2 P	12	2.0	mg/Kg	÷.	01/16/20 16:28	01/17/20 20:31	1
Manganaga	7200	FZ D	0.60	2.0	mg/Kg		01/16/20 16:28	01/17/20 20:31	
Niekel	500	D	0.00	0.000	mg/Kg	÷.	01/16/20 16:28	01/17/20 20:31	1
Solonium	-0 36	⊏1	0.00	0.10	mg/Kg	÷.	01/16/20 16:28	01/17/20 20:31	1
Cilicon	~0.00		0.00	0.00	mg/Kg		01/16/20 16:20	01/17/20 20:31	
Thellium	3.4		0.50	0.070	mg/Kg	÷.	01/16/20 16:28	01/17/20 20:31	1
Manadium	1.9		0.00	0.30	mg/Kg	ř	01/16/20 16:28	01/17/20 20:31	1
	21		1.2	0.071	mg/Kg	· · · · · · · · · · · · · · · · · · ·	01/10/20 10:20	01/17/20 20:31	· · · · · · · · · · · · · · · · · · ·
Zilic	4000	F4	20	0.55	mg/Kg	ř	01/10/20 10:20	01/17/20 20:31	1
Potassium	1600	F1	30	11	mg/Kg	*	01/10/20 10.20	01/17/20 20.31	1
Sourdin	62		00	8.9	ing/rkg	74	01/10/20 10:28	01/17/20 20:31	T
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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

Client Sample ID: 2789V-1-B01 (0-6) Date Collected: 01/14/20 09:20 Date Received: 01/14/20 13:20

Job ID: 500-176313-1

Lab Sample ID: 500-176313-1 Matrix: Solid

Percent Solids: 77.5

5

6

Method: 6010B - Metals (ICP) Analyte	- TCLP (Cor Result	n <mark>tinued)</mark> 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 Eas	t			11		Durand	A sea h sea a d	DIF
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	
Manganese	0.083		0.025	0.010	mg/L		01/21/20 15:05	01/22/20 09:11	1
Method: 6020A - Metals (ICP/M	IS) - 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 Mercu	y - 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 (CV	AA)								
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	<u> </u>	01/21/20 09:05	01/21/20 13:08	1
рН	72		0.2	02	SU			01/21/20 17:50	1

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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-2 Matrix: Solid

Percent Solids: 82.7

Method: 8260B - Volatile O Analyte	rganic Compo Result	unds (GC/ Qualifier	MS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acetone	< 0.0092		0.021	0.0092	mg/Kg	<u> </u>	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	Å	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
1,1-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	

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

99

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	< 0.0068		0.038	0.0068	mg/Kg	<u>Å</u>	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

75 - 124

Eurofins TestAmerica, Chicago

01/14/20 17:12 01/21/20 12:45

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

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 Co	mpounds	(GC/MS) (Co) Unit	P	Broparad	Analyzod	
Renzelalpyrana	0.0075		0.038		ma/Ka		01/21/20 19:39	Allalyzeu	
Benzo[b]fluoranthono		J	0.030	0.0074	mg/Kg	÷	01/21/20 10.30	01/22/20 14:13	1
Benzolo hilpondono	<0.002		0.030	0.0002	mg/Kg	· · · · · · · · · · · · ·	01/21/20 10.30	01/22/20 14.13	1
Benzo[k]fluorenthene	<0.012		0.030	0.012	mg/Kg	ň	01/21/20 10:30	01/22/20 14:13	1
	<0.011		0.030	0.011	mg/Kg	ň	01/21/20 10:30	01/22/20 14:13	1
Bis(2-chioroethoxy)methane	<0.039	*	0.19	0.039	mg/Kg	~~ بر	01/21/20 10:30	01/22/20 14.13	
Bis(2-chioroethyl)ether	< 0.057		0.19	0.057	mg/Kg	ж ж	01/21/20 18:38	01/22/20 14:13	1
Bis(2-ethylnexyl) phthalate	< 0.070		0.19	0.070	mg/Kg	*	01/21/20 18:38	01/22/20 14:13	1
4-Bromopnenyi pnenyi etner	<0.050		0.19	0.050	mg/Kg		01/21/20 18:38	01/22/20 14:13] .
Butyl benzyl prinalate	< 0.072		0.19	0.072	mg/Kg	ж Ж	01/21/20 18:38	01/22/20 14:13	1
	<0.095		0.19	0.095	mg/Kg	ж ж	01/21/20 18:38	01/22/20 14:13	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	بد م	01/21/20 18:38	01/22/20 14:13	1
4-Chloro-3-methylphenol	< 0.13		0.38	0.13	mg/Kg	Ф	01/21/20 18:38	01/22/20 14:13	1
2-Chloronaphthalene	< 0.042		0.19	0.042	mg/Kg	-\$2 -	01/21/20 18:38	01/22/20 14:13	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	Ω-	01/21/20 18:38	01/22/20 14:13	
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	-Q:	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 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
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	à.	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/Kq	¢	01/21/20 18:38	01/22/20 14:13	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kq	¢	01/21/20 18:38	01/22/20 14:13	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kq		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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

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

5

6

Extempolenol C0.36 D.77 D.36 mg/kg T D122201 E413 D12220 E413 <thd1220 e220="" e413<="" th=""> <thd1220 e220="" e413<="" th=""></thd1220></thd1220>	Analyte	Result	Qualifier	(GC/MS) (CC RL	MDL) Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodin-progvamine <0.046 0.077 0.046 mgkg 1 01/21/20 18.38 01/22/20 14.13 1 2.2*-oxpls[1-chiropopane] <0.044	4-Nitrophenol	< 0.36		0.77	0.36	mg/Kg	<u>Å</u>	01/21/20 18:38	01/22/20 14:13	1
N-Nirosogiopenyámine <0.045 0.19 0.044 mg/kg 1 01/12/10 18:38 01/22/0 14:13 1 2.2r.oxybia[1-chloroppane] <0.044	N-Nitrosodi-n-propylamine	<0.046		0.077	0.046	mg/Kg	°°°°¢	01/21/20 18:38	01/22/20 14:13	1
22-oyugital-biscopeopanel <0.044	N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☆	01/21/20 18:38	01/22/20 14:13	1
Pentachlarophenol <0.61 0.77 0.61 mg/Kg 0 01/21/20 18.38 01/22/20 14.13 1 Phenaltrene 0.016 J 0.035 mg/Kg 0 01/21/20 18.38 01/22/20 14.13 1 Pyrene 0.015 J 0.038 0.0076 mg/Kg 0 01/21/20 18.38 01/22/20 14.13 1 2.4.5 Tichlorophenol <0.067	2.2'-oxybis[1-chloropropane]	< 0.044	*	0.19	0.044	ma/Ka	¢	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 -0.0055 0.19 0.085 mg/Kg ○ 01/21/20 18.38 01/22/20 14.13 1 12.4-Trichtorophenol -0.041 0.19 0.041 mg/Kg ○ 01/21/20 18.38 01/22/20 14.13 1 2.4.6-Trichtorophenol -0.047 0.38 0.087 mg/Kg ○ 01/21/20 18.38 01/22/20 14.13 1 2.4.6-Trichtorophenol <0.13	Pentachlorophenol	<0.61		0.77	0.61	ma/Ka	• • • • • • \	01/21/20 18:38	01/22/20 14:13	
Phenol -0.085 0.19 0.085 mg/kg □ 0.12120 18.38 012220 14.13 1 Pyrene 0.015 0.038 0.0076 mg/kg ○ 012120 18.38 012220 14.13 1 2.4.5 Trichlorophenol <0.087 0.38 0.087 mg/kg ○ 012120 18.38 012220 14.13 1 2.4.6 Trichlorophenol <0.13 0.38 0.087 mg/kg ○ 012120 18.38 012220 14.13 1 2.4.6 Trichlorophenol <0.13 0.38 0.087 mg/kg ○ 012120 18.38 012220 14.13 1 2.4.6 Trichlorophenol 91 31 - 166 O112120 18.38 012220 14.13 1 2.4.6 Trichlorophenol 91 31 - 166 O122120 18.38 012220 14.13 1 Prepheryd-14 103 42 - 157 O12120 18.38 012220 14.13 1 2.4.6 Trichorophenol 74 31 - 143 O12120 18.38 012220 14.13 1 Prepheryd-14 103 42 - 157 O12120 18.38 <	Phenanthrene	0.016	л	0.038	0.0053	ma/Ka	¢	01/21/20 18:38	01/22/20 14.13	1
Pyrene 0.015 J 0.003 marks 0.017 marks 0.012120 0.023 0.12220 14.13 1 1.2.4-Trichlorophenol <0.041	Phenol	<0.085	0	0.19	0.085	ma/Ka	¢	01/21/20 18:38	01/22/20 14:13	1
Total Out of Out of Out of Marky Correct of the second of the	Pyrene	0.015		0.038	0.0076	ma/Ka		01/21/20 18:38	01/22/20 14:13	
Action Co.0	1 2 4-Trichlorobenzene	<0.010	0	0.000	0.0070	ma/Ka	÷.	01/21/20 18:38	01/22/20 14:13	1
A.B. Trichlorophenol Kots Kots<	2 4 5-Trichlorophenol	<0.047		0.38	0.041	ma/Ka	÷.	01/21/20 18:38	01/22/20 14:13	1
Surrogate %Recovery Qualifier Limits Prepared Analyzed Dif Face 2-Huorobjehen/i 91 31 166 01/21/2018.33 01/22/2014.13 1 2-Huorobjehen/i 91 31 166 01/21/2018.33 01/22/2014.13 1 2-Huorobjehen/i 91 33 153 01/21/2018.33 01/22/2014.13 1 7 Honol-d5 93 30 153 01/21/2018.33 01/22/2014.13 1 7 Honol-d5 93 30 153 01/21/2018.33 01/22/2014.13 1 7 Honol-d5 93 30 153 01/21/2018.33 01/22/2014.13 1 8 Ad-6.Tribromophenol 74 31 143 01/21/2018.33 01/22/2014.13 1 Mathed 600 0.21 mg/kg 01/16/2016.28 01/17/20 20:53 1 Actimony <0.23	2,4,6 Trichlorophenol	<0.007		0.00	0.007	mg/Kg		01/21/20 18:38	01/22/20 14:10	
Surrogate %Recovery Qualifier Limits Prepared Analyzed Diffac 2-Fluorobiphenyl 61 43.145 01/21/20.18.38 01/22/20.14.13 1 Vitroberzene-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 Prepared 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) Analyzed 0.23 1.2 0.23 mg/Kg 01/16/20.162.8 01/17/20.20.53 1 Arsenic 8.4 0.60 0.21 mg/Kg 01/16/20.162.8 01/17/20.20.53 1 Barium 0.74 0.24 0.056 mg/Kg 01/16/20.162.8 01/17/20.20.53 1 Cadmium 0.40 8 0.30 0.079 mg/Kg 01/16/20.162.8 01/17/20.20.53 1 Cadmi	2,4,0-110101001001	~0.15		0.50	0.15	mg/itg		01/21/20 10:50	01/22/20 14:15	1
2-Fluorobjehenyl 81 43.145 01/27/20 18.38 01/22/20 14.13 1 Arluarobjehenyl 91 31.166 01/21/20 18.38 01/22/20 14.13 1 Nitrobenzen-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 Tephenyl-d14 103 42.157 01/21/20 18.38 01/22/20 14.13 1 Actionary <033	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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 Adatyle 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 01/17/20 10:38 01/21/20 10:38 01/21/20 10:33 1 Aristenic 8.4 0.60 0.21 mg/Kg 0 01/16/20 10:28 01/17/20 20:53 1 Barvium 0.74 0.22 0.022 mg/Kg 0 01/16/20 10:28 01/17/20 20:53 1 Commum 0.40 0.12 0.022 mg/Kg 0 01/16/20 10:28 01/17/20 20:53 1 Chomium 16	2-Fluorobiphenyl	81		43 - 145				01/21/20 18:38	01/22/20 14:13	1
Nitrobezene-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 Actionary 74 31-143 01/21/20 18:38 01/22/20 14:13 1 Method: 6010B - Metals (ICP) Result Qualifier RL MDL Unit D Prepared Analyzed 01/17/20 20:53 11 Arsenic 8.4 0.60 0.21 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Barlum 77 0.60 0.022 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 Cadmium 0.40 B 0.12 0.022 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Cadmium 0.40 B 0.12 0.2	2-Fluorophenol	91		31 - 166				01/21/20 18:38	01/22/20 14:13	1
Phenol-ds 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 Act-Tribromophenol 74 31 - 143 01/21/20 18:38 01/22/20 14:13 1 Method: 6010B - Metals (ICP) Result Qualifier RL MDL Unit D Prepared Analyzed DII Fac Ansenic 8.4 0.60 0.21 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Barjum 0.74 0.24 0.066 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 Cobait 11 0.30 0.079 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Copper 27 0.60 0.30 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Iron 20000 B 12 6.3 mg/Kg	Nitrobenzene-d5	79		37 - 147				01/21/20 18:38	01/22/20 14:13	1
Terphenyld14 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 01/16/20 16:28 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 0.056 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 Cadmium 0.40 B 0.12 0.022 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Cadmium 16 0.60 0.30 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	Phenol-d5	93		30 - 153				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 Dill Fac Antimony <0.23	Terphenyl-d14	103		42 - 157				01/21/20 18:38	01/22/20 14:13	1
Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Prepared Analyze Dill Fac Antimony <0.23	2,4,6-Tribromophenol	74		31 - 143				01/21/20 18:38	01/22/20 14:13	1
Method: 6010B - Metals (ICP) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Antimony <0.23										
Arlange Result Qualifier R.L mDL Diffee Prepared Analyzed Diffee Arsenic 8.4 0.60 0.21 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Barlum 77 0.60 0.069 mg/Kg 01/16/20 16:28 01/17/20 20:53 1 Barlum 0.74 0.24 0.050 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 Cadmium 0.64 B 0.02 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 Cobalt 11 0.30 0.079 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	Method: 6010B - Metals (ICP)	Booult	Qualifiar	ы	MDI	Unit	Р	Broporod	Apolyzod	
Andminoly < 0.23 1.2 0.23 0.17	Antimore		Quaimer	RL		Unit		Prepareu		
Arsenic 8.4 0.60 0.21 Img/kg 01/16/20 02.80 01/17/20 20.53 1 Beryllium 0.77 0.60 0.069 mg/kg 01/16/20 01/16/20 02.80 01/17/20 20.53 1 Beryllium 0.74 0.24 0.056 mg/kg 01/16/20 01/16/20 01/17/20 20.53 1 Cadmium 0.40 B 0.12 0.022 mg/kg 01/16/20 01/17/20 20.53 1 Cobalt 11 0.30 0.007 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 Cobalt 11 0.30 0.414 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 Magnesium 16000 6.0 0.38 mg/kg 01/16/20 16:28 <td>Antimony</td> <td><0.23</td> <td></td> <td>1.2</td> <td>0.23</td> <td>mg/Kg</td> <td>*</td> <td>01/16/20 16:28</td> <td>01/17/20 20:53</td> <td>1</td>	Antimony	<0.23		1.2	0.23	mg/Kg	*	01/16/20 16:28	01/17/20 20:53	1
Barlum 77 0.00 0.005 mg/kg ∞ 01/16/20 62.8 01/17/20 20:33 1 Beryllium 0.40 B 0.12 0.025 mg/kg ∞ 01/16/20 16:28 01/17/20 20:53 1 Cadmium 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 Icon 20000 B 12 6.3 mg/kg ∞ 01/16/20 16:28 01/17/20 20:53 1 Magnesium 16600 6.0 3.0 mg/kg ∞ 01/16/20 16:28 01/17/20 20:53 1 Magnesium <0.60	Arsenic	8.4		0.60	0.21	mg/Kg	*	01/16/20 16:28	01/17/20 20:53	1
Beryllium 0.74 0.24 0.026 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 Lead 18 0.30 0.14 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 Selenium <0.35 0.60 0.35 mg/kg ○ <th< td=""><td>Barium</td><td></td><td></td><td>0.60</td><td>0.069</td><td>mg/Kg</td><td></td><td>01/16/20 16:28</td><td>01/17/20 20:53</td><td></td></th<>	Barium			0.60	0.069	mg/Kg		01/16/20 16:28	01/17/20 20:53	
Cadmium 0.40 B 0.12 0.022 mg/kg 0.11/1/20 01/16/20 10:28 01/17/20 20:33 1 Chromium 16 0.60 0.30 mg/kg 01/16/20 16:28 01/17/20 20:33 1 Cobalt 11 0.30 0.079 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 Cobalt 11 0.30 0.079 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 Magnesium 26000 B 12 2.0 mg/kg 01/16/20 16:28 01/17/20 20:53 1	Beryllium	0.74	_	0.24	0.056	mg/Kg	74 24	01/16/20 16:28	01/17/20 20:53	1
Chromium 16 0.60 0.30 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Cobalt 11 0.30 0.079 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Copper 27 0.60 0.17 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Lead 18 0.30 0.14 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Lead 18 0.30 0.14 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Magnesium 16000 6.0 3.0 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Marganese 320 B 0.60 0.87 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Stlover 2.7 0.30 0.078 mg/kg \sim 01/16/20 16:28 01/17/20 20:53 1 Stlover 2.7 0.30 0.078 mg/kg \sim	Cadmium	0.40	В	0.12	0.022	mg/Kg	14 ~	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 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 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 Magnese 320 B 0.60 0.87 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	Chromium	16		0.60	0.30	mg/Kg	ۍد بې	01/16/20 16:28	01/17/20 20:53	1
Copper 27 0.60 0.17 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Iron 20000 B 12 6.3 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Lead 18 0.30 0.14 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Magnesium 16000 6.0 3.0 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Calcium 26000 B 12 2.0 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Manganese 320 B 0.60 0.087 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Nickel 29 0.60 0.38 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 Silver 2.7 0.30 0.078 mg/Kg 201/16/20 16:28 01/17/20 20:53 1 <	Cobalt	11		0.30	0.079	mg/Kg	14 14	01/16/20 16:28	01/17/20 20:53	1
Iron 20000 B 12 6.3 mg/Kg Point/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 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	Copper	27		0.60	0.17	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	Iron	20000	В	12	6.3	mg/Kg	÷2:	01/16/20 16:28	01/17/20 20:53	1
Magnesium 16000 6.0 3.0 mg/kg 01/16/20 01/12/20 01/17/20 02:53 1 Calcium 26000 B 12 2.0 mg/kg 01/16/20 01:28 01/17/20 02:53 1 Manganese 320 B 0.60 0.087 mg/kg 01/16/20 01:28 01/17/20 20:53 1 Nickel 29 0.60 0.087 mg/kg 01/16/20 01:28 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 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 Zinc 68 1.2 0.53 mg/kg 01/16/20 01/20/20 <t< td=""><td>Lead</td><td>18</td><td></td><td>0.30</td><td>0.14</td><td>mg/Kg</td><td>-Q:</td><td>01/16/20 16:28</td><td>01/17/20 20:53</td><td>1</td></t<>	Lead	18		0.30	0.14	mg/Kg	-Q:	01/16/20 16:28	01/17/20 20:53	1
Calcium 26000 B 12 2.0 mg/Kg Private 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	Magnesium	16000		6.0	3.0	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 Yanadium 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 Sodium 92 60 8.9 mg/Kg ©	Calcium	26000	В	12	2.0	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	Manganese	320	В	0.60	0.087	mg/Kg	÷	01/16/20 16:28	01/17/20 20:53	1
Selenium <0.35	Nickel	29		0.60	0.18	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 Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Arsenic <0.010 0.39 J 0.50 0.050 mg/L 01/20/20 01/20/20 1 Beryllium <0.0040	Selenium	<0.35		0.60	0.35	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 Model MDL Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 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 Gadmium <0.0020 0.0050 0.0020 mg/L 01/20/20 07:41 <td>Silver</td> <td>2.7</td> <td></td> <td>0.30</td> <td>0.078</td> <td>mg/Kg</td> <td>¢</td> <td>01/16/20 16:28</td> <td>01/17/20 20:53</td> <td>1</td>	Silver	2.7		0.30	0.078	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 Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 0.39 J 0.50 0.010 mg/L D Prepared O1/20/20 18:09 Dil Fac 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 0.0040 0.0020 01/20/20 07:41 01/20/20 18:09 1	Thallium	1.8		0.60	0.30	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 Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared O1/20/20 07:41 O1/20/20 18:09 D1 Barium 0.39 J 0.50 0.050 mg/L 01/20/20 07:41 01/20/20 18:09 1 Gadmium <0.0040 0.0040 0.0040 0.0040 0.0040 01/20/20 07:41 01/20/20 18:09 1	Vanadium	23		0.30	0.071	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 Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 0.010 0.050 0.010 mg/L D Prepared Analyzed Dil Fac 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 <0.020 0.0050 0.0020 mg/L 01/20/20 07:41 01/20/20 18:09 1	Zinc	68		1.2	0.53	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 Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte < 0.010 0.050 0.010 mg/L D 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 0.0040 0.0120 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	Potassium	1700		30	11	mg/Kg	¢	01/16/20 16:28	01/17/20 20:53	1
Method: 6010B - Metals (ICP) - TCLP Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Arsenic <0.010	Sodium	92		60	8.9	mg/Kg	¢	01/16/20 16:28	01/17/20 20:53	1
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Arsenic <0.010	Method: 6010B - Motale (ICP)									
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	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium 0.39 J 0.50 0.050 mg/L 01/20/20 07:41 01/20/20 18:09 1 Beryllium <0.0040	Arsenic	<0.010		0.050	0.010	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	Barium	0.39	Л	0.50	0.050	ma/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	Bervllium	<0 0040	-	0.0040	0.0040	ma/l		01/20/20 07.41	01/20/20 18:09	1
	Cadmium	<0.0020		0.0050	0.0020	ma/l		01/20/20 07.41	01/20/20 18:09	

Eurofins TestAmerica, Chicago

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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-2 Matrix: Solid

Percent Solids: 82.7

Method: 6010B - Metals (ICP)	- TCLP (Cor	ntinued)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
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	6
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	8
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	0
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:09	1	3
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/N	IS) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	13
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	
	y - 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 (CV/	AA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.027		0.019	0.0063	mg/Kg	<u> </u>	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	
рН	7.6	н	0.2	0.2	SU			01/23/20 22:45	1	

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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-4 Matrix: Solid

Percent Solids: 77.6

Method: 8260B - Volatile O Analyte	rganic Compo Result	unds (GC/ Qualifier	MS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Acetone	0.052		0.019	0.0082	mg/Kg	<u> </u>	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	c c
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
1,1-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	ф	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	ф	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	φ.	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	

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

101

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	< 0.0074		0.041	0.0074	mg/Kg	<u> </u>	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

75 - 124

Eurofins TestAmerica, Chicago

01/14/20 17:12 01/21/20 13:37

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

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 Analyte	Organic Co Result	mpounds Qualifier	(GC/MS) (Cor RL	ntinued) 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	Ċ,	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 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 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
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

Page 24 of 76

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

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

5

6

Method: 8270D - Semivolatile	Organic Co	mpounds	(GC/MS) (Co	ontinued)	_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	جې د ۲۰۰۰ د ۲۰	01/21/20 18:38	01/22/20 15:04	1
N-Nitrosodi-n-propylamine	<0.051		0.083	0.051	mg/Kg	-Q:	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	ţ.	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
Terphenvl-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)	Desult	Qualifian	DI	MDI	11		Duran and	A	DUEss
Analyte	Result	Qualifier	RL	MDL	Unit		Prepared	Analyzed	DIIFac
Antimony	<0.24		1.2	0.24	mg/Kg	ж ж	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
Barlum	93		0.61	0.069	mg/Kg	بې بې	01/16/20 16:28	01/17/20 21:14	1
Beryllium	0.74	_	0.24	0.057	mg/Kg	φ. 	01/16/20 16:28	01/17/20 21:14	1
Cadmium	0.38	В	0.12	0.022	mg/Kg	τ ς - ττ	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	-Q:	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	В	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	ţ.	01/16/20 16:28	01/17/20 21:14	1
Calcium	23000	В	12	2.1	mg/Kg	¢.	01/16/20 16:28	01/17/20 21:14	1
Manganese	600	В	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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-4 Matrix: Solid

Percent Solids: 77.6

Method: 6010B - Metals (ICP)	- TCLP (Cor	ntinued)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
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	6
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	8
Magnesium	130		2.5	0.50	mg/L		01/20/20 07:41	01/20/20 18:18	1	0
Manganese	0.15		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1	0
Nickel	<0.010		0.025	0.010	mg/L		01/20/20 07:41	01/20/20 18:18	1	3
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/I	MS) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	13
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:41	01/20/20 19:21	1	
Thallium	<0.0020	٨	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:21	1	
Method: 7470A - TCLP Mercu	ry - 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 (CV	AA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.027		0.020	0.0065	mg/Kg	<u> </u>	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	
рН	7.4	Н	0.2	0.2	SU			01/23/20 22:52	1	

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

Laboratory: Eurofins TestAmerica, Chicago Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program Identification Number **Expiration Date** Illinois NELAP IL00035 04-30-20 5 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 Solid 3010A Cadmium 6010B 6010B 3010A Solid Calcium 6010B 3010A Solid Chromium 6010B 3010A Solid Cobalt 6010B 3010A Solid Copper 3010A 6010B Solid Iron 3010A 6010B Solid Lead 6010B 3010A Solid Magnesium 12 13 6010B 3010A Solid Manganese 6010B 3010A Solid Nickel 6010B 3010A Solid Potassium 3010A Selenium 6010B Solid 6010B 3010A Solid Silver 3010A Solid 6010B Vanadium 6010B 3010A Solid Zinc 6010B 3050B Solid Antimony 6010B 3050B Solid Arsenic 6010B 3050B Solid Barium 6010B 3050B Solid Beryllium 6010B 3050B Cadmium Solid Calcium 3050B 6010B Solid 6010B 3050B Solid Chromium 3050B 6010B Solid Cobalt 6010B 3050B Solid Copper 6010B 3050B Solid Iron 6010B 3050B Solid Lead 6010B 3050B Solid Magnesium 3050B 6010B Solid Manganese 6010B 3050B Solid Nickel 6010B 3050B Solid Potassium 6010B 3050B Solid Selenium 6010B 3050B Solid Silver 6010B 3050B Solid Sodium Thallium 6010B 3050B Solid 6010B 3050B Solid Vanadium 6010B 3050B Zinc Solid 6020A 3010A Solid Antimony 6020A 3010A Solid Thallium 7470A 7470A Solid Mercury 7471B 7471B Solid Mercury 5035 8260B Solid 1,1,1-Trichloroethane 8260B 5035 Solid 1,1,2,2-Tetrachloroethane

Identification Number

IL00035

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichloroethane

1,2-Dichloropropane

2-Butanone (MEK)

2-Hexanone

Acetone

Benzene

Bromoform

Bromomethane

Carbon disulfide

Chlorobenzene

Chloromethane

Ethylbenzene

Styrene

Toluene

cis-1.2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

Dibromofluoromethane

Methyl tert-butyl ether

Methylene Chloride

Tetrachloroethene

Trichloroethene

Vinyl acetate

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

1,2,4-Trichlorobenzene

1.2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2.4-Dinitrotoluene

2,6-Dinitrotoluene

2-Chloronaphthalene

2,2'-oxybis[1-chloropropane]

Chloroethane

Chloroform

Carbon tetrachloride

1,3-Dichloropropene, Total

4-Methyl-2-pentanone (MIBK)

Bromodichloromethane

Expiration Date

04-30-20

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

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Authority

8260B

8270D

Illinois

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Solid

Program

NELAP

Eurofins	TestAmerica,	Chicago
----------	--------------	---------

Identification Number

IL00035

2-Chlorophenol

2-Nitroaniline

2-Nitrophenol

3-Nitroaniline

4-Chloroaniline

4-Nitroaniline

4-Nitrophenol

Acenaphthene

Anthracene

Acenaphthylene

Benzo[a]pyrene

Benzo[a]anthracene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Bis(2-chloroethyl)ether

Butyl benzyl phthalate

Dibenz(a,h)anthracene

Carbazole

Chrysene

Dibenzofuran

Fluoranthene

Fluorene

Diethyl phthalate

Dimethyl phthalate

Di-n-butyl phthalate

Di-n-octyl phthalate

Hexachlorobenzene

Hexachlorobutadiene

Indeno[1,2,3-cd]pyrene

N-Nitrosodi-n-propylamine

N-Nitrosodiphenylamine

Pentachlorophenol

Phenanthrene

Hexachloroethane

Isophorone

Naphthalene

Nitrobenzene

Hexachlorocyclopentadiene

Bis(2-chloroethoxy)methane

Bis(2-ethylhexyl) phthalate

2-Methylnaphthalene 2-Methylphenol

3 & 4 Methylphenol

3,3'-Dichlorobenzidine

4,6-Dinitro-2-methylphenol

4-Chloro-3-methylphenol

4-Bromophenyl phenyl ether

4-Chlorophenyl phenyl ether

Expiration Date

04-30-20

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

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Authority

8270D

Illinois

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Solid

Program

NELAP

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

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	рН	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

Chain of Custody Record 38

388793 🔅 eurofins

Environment Testing TestAmerica

۸d	Ы	roco	
Au	u	1855.	

	Regulatory Prog	ram: DW NPDES	RCRA Other:		TAL-8210
Client Contact	Project Manager:	ke Fischer	Site Contact:	Date: 1-14-20	COC No:
Company Name: ED	Tel/Email: MFLs ch	er p envolusionic	AB-Sontact: R-WRIGHT	Carrier:	of COCs
ddress: 33 W. Monroe, Ste. 182	Analysis Tur	naround Time		1 1 1 1 1 1 1	Sampler: M. Fischen
ty/State/Zip: Chicajo, FL 60603	X CALENDAR DAYS	WORKING DAYS	250	8,2622,2	For Lab Use Only:
ione: 312-345-1400	TAT if different from	Below	(z) 335	CARE S	Walk-in Client:
x:	2 w	eeks	12 <u>2</u> 2 3		Lab Sampling:
oject Name: PTB 174-009-W0 66A	1 w	eek	2 mm 3	120 - Theor	
te: 27891-1 (1561#)	2 da	ays	NOW NE	500-176313 COC	Job / SDG No.:
0# 2031.001	1 da	ау		500-11-02-1	500-1763/3
		Sample	STCC OL S		
	Sample Sample	Type # of	TTCTCO		
Sample Identification	Date Time	(C=Comp, # of G=Grab) Matrix Cont.	# DVHHA		Sample Specific Notes:
		0 0 0			
278911-1-1301/0-6)	1-14-20 0420	655	XXXXXX		
-Bod (AL)	1 1925	111	1111111		
-002(0-6)	0155				
-603(0-6)	0950				
1 Oald Co.IX	last				
-150 (0-6)	1003	LLL			
	and the second s				
L					
		1 - 1 - 1 - 1 - 1			
eservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNC	03; 5=NaOH; 6= Other				
ossible Hazard Identification:			Sample Disposal (A fee may	be assessed if samples are ret	ained longer than 1 month)
e any samples from a listed EPA Hazardous Waste? Pl	ease List any EPA Waste C	odes for the sample in the			
omments Section if the lab is to dispose of the sample.		S-1		A	
Non-Hazard Flammable Skin Irritant	Poison B	Inknown	Return to Client	Disposal by Lab Archive	for Months
pecial Instructions/QC Requirements & Comments:					
				in	
			Coolor Tomp // C):	Proid: LES Corrid:	Thorm ID No.
Custody Seals Intact: Yes No	Custody Seal No.:		Cooler Temp. (C).	osa: 40- Corra.	
linguished by	Company:	Date/Time:	Received by:	Compared	Date lime: 122
Att 2	EUI	1.14.20	Multer		118/2015
straguished by:	Company: 1/1./	Date/Time:	Received by:	Company:	Date/Time:
mount	14 1141	1300	0.0 1		
alinquished by:	Company:	Date/Time:	Received in Laboratory M	Company:	Date Time:
			SAMA NAM	O TUM	1111220 1320

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Login Number: 176313 List Number: 1 Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 500-176313-1

List Source: Eurofins TestAmerica, Chicago



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 III. 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 III. 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: <u>60160</u>							
County:	Cook	Township:								
Lat/Long	of approximate center of site in	decimal degrees (DD.o	dddd) to five decimal p	olaces (e.g., 40.67890, -90.12345):						
Latitude:	41.90809 Longitude:	- 87.86806	_							
	(Decimal Degrees)	(-Decimal Degrees))							
Identify he	(Decimal Degrees) (-Decimal Degrees) fy how the lat/long data were determined:									
O GPS	antify how the lat/long data were determined: GPS ○ Map Interpolation ○ Photo Interpolation ○ Survey ⓒ Other									
Google E	arth									
IEPA Site	Number(s), if assigned: BO	_:	BOW:	BOA:						
Approxim	ate Start Date (mm/dd/yyyy):	TBD	_ Approximate End Da	te (mm/dd/yyyy): TBD						
Estimated	d Volume of debris (cu. Yd.):	210	_							

II. Owner/Operator Information for Source Site

Site Owner		Site Operator		
Name:	Illinois Department of Transportation	Name:	Illinois Department of	Transportation
Street Address:	201 West Center Court	Street Address:	201 We	st Center Court
PO Box:		PO Box:		
City:	Schaumburg State: IL	City:	Schaumburg	State: IL
Zip Code:	60196 Phone: 847-705-4122	Zip Code:	60196 Phone:	847-705-4122
Contact:	Irma Romiti-Johnson	Contact:	Irma I	Romiti-Johnson
Email, if available:	irma.romiti-johnson@illinois.gov	Email, if available:	irma.romiti-johns	on@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. 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 III. 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 III. 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. <u>Michael Fischer</u> (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 III. 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	Environmental Design International inc.								
Street Address:	33 West Monroe Stree	t, 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:



Uncontaminated Soil Certification

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

		IEPA Tier 1 Soil Remediation Objectives						Deckmannel		Maximum Allowed Concentration	Field Sample ID	2789V-2-B01 (0-6)
Analyte	Units					Soil Component	ADL	Backg	round		Sample Donth (foot)	0 - 6
		Residentia	I Properties	Constructi	on Workers	Groundwater				CCDD	J ab Sample ID	500 176313 5
						Ingestion Route				ma/ka	Lab Sample ID	2780\/_2
		Incetion	Inheletion	Incestion	Inheletion	Clean I		Chieses	MCAs	111g/Kg	Data Callested	2/03/-2
		ingestion	innalation	Ingestion	Innalation	Class I		Chicago	WISAS	pri 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]pvrene	ma/ka	0.09		170		8	*	1.3	2.1	0.09		0.40
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
Dibenz(a b)anthracene	mg/kg	00		17,000		160	*	0.2	0.42	00		0.46
Dibenzofuran	ma/ka	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 Rhononthrono	mg/kg	1,600	170	4,100	1.8	12	*	0.04	0.2	1.8		0.023
Pyrene	mg/kg	2,300		61,000		4 200	*	1.3	2.5	2 300		0.83
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
Banum	mg/kg	5,500	1 300	14,000	870,000		*		0.59	1,500		0.77
Cadmium	mg/kg	78	1,800	200	59.000		*		0.55	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
Lead	ma/ka	400		700			*		36	107		22000
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
Polassium	mg/kg	390		1 000			*		0.55	4.4		2500
Sodium	ma/ka						*		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
	-							<u> </u>		6.25 - 9.0		1.5
Inorganic Analytical Parameters (TCLP)												
Antimony,TCLP	mg/L					0.006						ND
Arsenic, I CLP Barium TCLP	mg/L					0.05						ND 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
Copper TCLP	mg/L					1						ND
Iron TCLP	mg/L					0.05						ND
Lead,TCLP	mg/L					0.0075					1	ND
Magnesium,TCLP	mg/L											110
Manganese,TCLP	mg/L					0.15						0.26
Mercury,TCLP	mg/L					0.002						ND
NICKEL, I ULP Potassium TCLP	mg/L					U.1						ND 1.2
Silver.TCLP	ma/L					0.05						ND
Thallium,TCLP	mg/L										1	ND
Vanadium,TCLP	mg/L					0.049						ND
Zinc,TCLP	mg/L					5						0.20
Inorganic Analytical Parameters (SPLP)						a :-						
Manganese SPLP	ma/L		I			0.15					1	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

Rill W

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

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

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-5 Matrix: Solid

Percent Solids: 82.7

Method: 8260B - Volatile O Analyte	rganic Compo Result	unds (GC/ Qualifier	MS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	Ī
Acetone	0.051		0.021	0.0092	mg/Kg	<u> </u>	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	2
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	<u> </u>	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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

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

Banzolpiuren 0.43 0.038 0.0075 mgKq F F12120211529 F1212011538 F1222011529 F1212011538 F1222011529 F1212011538 F1222011529 F1212011538 F1222011529 F1212011538 F1222011529 F1212011538 F122	Method: 8270D - Semivolat Analyte	ile Organic Co Result	mpounds Qualifier	s (GC/MS) (Co RL	ntinued MDL) Unit	D	Prepared	Analyzed	Dil Fac
Bonzejn, Ilporylene 0.68 0.088 0.098 0.1212/01538 01222/01529 1 Bonzejn, Ilporylene 0.30 0.038 0.011 mgKq 0 01212/01538 01222/01529 1 Bonzejn, Ilporylene 0.038 0.011 mgKq 0 01212/01538 01222/01529 1 Big2, chronethyljether 0.058 0.019 0.058 mgKq 0 01212/01538 01222/01529 1 Big2, chronethyljether 0.051 0.19 0.057 mgKq 0 01212/01538 01222/01529 1 Big2, chronethyljether 0.061 0.19 0.067 mgKq 0 01212/01538 01222/01529 1 Garbazole 0.14 0.18 0.78 0.78 0721/201838 01222/01529 1 1 Chronorampthalate -0.043 0.18 0.712/201838 01222/01529 1 1 Chronorampthalate -0.045 0.19 0.045 mgKq 0 01212/01838 01222/01529	Benzo[a]pyrene	0.43		0.038	0.0075	mg/Kg	\ ₽	01/21/20 18:38	01/22/20 15:29	1
Benze (filturenthen 0.15 0.038 0.012 myKg 0 01/22/018.38	Benzo[b]fluoranthene	0.68		0.038	0.0083	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Benze, Gylluoranthene 0.30 0.039 0.011 mg/kg 0 01/22/1013.83 01/22/0152.9 1 Bis/2-choronethy/lether -0.058 0.19 0.058 mg/kg 0 01/21/2018.38 01/22/0152.9 1 Bis/2-choronethy/lether -0.051 0.19 0.051 mg/kg 0 01/21/2018.38 01/22/0152.9 1 Bis/2-choronethy/lether -0.051 0.19 0.073 mg/kg 0 01/21/2018.38 01/22/0152.9 1 Bis/2-choronethy/lether -0.041 0.19 0.066 mg/kg 0 01/21/2018.38 01/22/0152.9 1 Choronethy/lethenl -0.13 0.38 0.13 mg/kg 0 01/21/2018.38 01/22/0152.9 1 2-Choronephrol -0.045 0.19 0.045 mg/kg 0 01/21/2018.38 01/22/0152.9 1 1 2-Choronephrol -0.045 0.19 0.045 mg/kg 0 01/21/2018.38 01/22/0152.9 1 1 2-Cho	Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Big2.chioneshoxymethane =0.039 0.19 0.038 mgKg 0 01/22/01838 01/22/01828 </td <td>Benzo[k]fluoranthene</td> <td>0.30</td> <td></td> <td>0.038</td> <td>0.011</td> <td>mg/Kg</td> <td>¢</td> <td>01/21/20 18:38</td> <td>01/22/20 15:29</td> <td>1</td>	Benzo[k]fluoranthene	0.30		0.038	0.011	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Bis(2-br/hew)pthalate Bis(2-br/hew)pthalate Bis(2-br/hew)pthalate Corror myKg Bis(2-br/hew)pthalate Corror myKg Corror myKg 	Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Big(2-ethylbeny) phthalate <0.070	Bis(2-chloroethyl)ether	<0.058	*	0.19	0.058	mg/Kg	¢.	01/21/20 18:38	01/22/20 15:29	1
4-Bromopheny joheny elter <0.051	Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Buty brahate <0.073	4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
Carhazole 0.14 J 0.19 0.086 m/sq 0 01/21/2018.38 01/22/2018.28 1 4-Chloros-methylphenol <0.13	Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	¢.	01/21/20 18:38	01/22/20 15:29	1
4-Choosalline <0.18	Carbazole	0.14	J	0.19	0.096	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
4-Chioro-3-methylphenol <0.043	4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	¢	01/21/20 18:38	01/22/20 15:29	1
2-Chloronaphthalene <0.043	4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	÷ · · · · · · · · · · · · · · · · · · ·	01/21/20 18:38	01/22/20 15:29	1
2-Chlorophenol <0.066	2-Chloronaphthalene	< 0.043		0.19	0.043	mg/Kg	☆	01/21/20 18:38	01/22/20 15:29	1
4-Chorophenyl phenyl ether <0.045	2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☆	01/21/20 18:38	01/22/20 15:29	1
Chrysen 0.46 0.038 0.011 mg/Kg * 01/21/20 18:38 01/22/20 15:29 1 Diborad, h)anthracene 0.047 0.038 0.0074 mg/Kg * 01/21/20 18:38 01/22/20 15:29 1 1,2-Dichlorobenzene <0.046	4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	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 0 01/21/20 18:38 01/22/20 15:29 1 Dibenz(a,h)anthracene 0.046 0.19 0.046 mg/Kg 0 01/21/20 18:38 01/22/20 15:29 1 1.3-Dichlorobenzene <0.043	Chrysene	0.46		0.038	0.011	ma/Ka	÷	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	Dibenz(a,h)anthracene	0.047		0.038	0.0074	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	1 1
1.2-Dichlorobenzene <0.046	Dibenzofuran	0.051	J	0.19	0.045	ma/Ka		01/21/20 18:38	01/22/20 15:29	1
1.3-Dichlorobenzene <0.043	1.2-Dichlorobenzene	< 0.046	•	0.19	0.046	ma/Ka	☆	01/21/20 18:38	01/22/20 15:29	1 1
1.4-Dichlorobenzene <0.049	1.3-Dichlorobenzene	< 0.043		0.19	0.043	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
3.3-Dichlorobenzidine -0.054 0.19 0.054 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 2.4-Dichlorophenol -0.065 0.19 0.065 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-Dinethyl phthalate -0.065 0.19 0.050 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-Dinethyl phthalate -0.050 0.19 0.050 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-honethyl phthalate -0.050 0.19 0.050 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-A-Dinitryohenol -0.048 0.78 0.31 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-A-Dinitryohuene -0.061 0.19 0.061 mg/Kg 0 01/21/20 18.38 01/22/20 15.29 1 J-Din-octyl phthalate -0.063 0.19 0.061 mg/Kg 0 01/21/20 18.38 <td< td=""><td>1 4-Dichlorobenzene</td><td><0.049</td><td></td><td>0 19</td><td>0.049</td><td>ma/Ka</td><td>÷</td><td>01/21/20 18:38</td><td>01/22/20 15:29</td><td>1</td></td<>	1 4-Dichlorobenzene	<0.049		0 19	0.049	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	1
2.4-Dichlorophenol <0.092	3.3'-Dichlorobenzidine	< 0.054		0.19	0.054	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
Diethyl phthalate COG6 0.19 0.065 mg/Kg 0.121/20.18:38 01/22/20.15:29 1 2,4-Dimethyl phthalate <0.055	2 4-Dichlorophenol	<0.092		0.38	0.092	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
2.4-Dimethylphenol <0.15	Diethyl phthalate	<0.065		0 19	0.065	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	
Intervip One One <thone< th=""> <thone<< td=""><td>2 4-Dimethylphenol</td><td><0.15</td><td></td><td>0.38</td><td>0 15</td><td>ma/Ka</td><td>¢</td><td>01/21/20 18:38</td><td>01/22/20 15:29</td><td>1</td></thone<<></thone<>	2 4-Dimethylphenol	<0.15		0.38	0 15	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
Din-buty pintalate Close Ding Ding Close Ding Ding <thd< td=""><td>Dimethyl phthalate</td><td><0.050</td><td></td><td>0.19</td><td>0.050</td><td>ma/Ka</td><td>¢</td><td>01/21/20 18:38</td><td>01/22/20 15:29</td><td>1</td></thd<>	Dimethyl phthalate	<0.050		0.19	0.050	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
4.6-Dinitro-2-methylphenol <0.31	Di-n-butyl phthalate	<0.059		0.19	0.059	ma/Ka	ф.	01/21/20 18:38	01/22/20 15:29	
2.4-Dinitrophenol <0.68	4.6-Dinitro-2-methylphenol	< 0.31		0.78	0.31	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
2.4-Dinitrotoluene <0.061	2 4-Dinitrophenol	<0.68		0.78	0.68	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
2.6-Dinitrotoluene <0.076	2 4-Dinitrotoluene	<0.061		0.19	0.061	ma/Ka		01/21/20 18:38	01/22/20 15:29	
Liberatorial constraints 0.10 0.10 0.10 0.10 0.10 0.11 0.10 0.11	2 6-Dinitrotoluene	<0.076		0.19	0.076	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
Fluorathene 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 Hexachlorobutadiene <0.022 0.78 0.22 mg/kg 01/21/20 18:38 01/22/20 15:29 1 Hexachlorobutadiene <0.022 0.78 0.22 mg/kg 01/21/20 18:38 01/22/20 15:29 1 Hexachlorobutadiene <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 2-Methylnaphthalene 0.041 J <th0< td=""><td>Di-n-octyl phthalate</td><td><0.063</td><td></td><td>0.19</td><td>0.063</td><td>ma/Ka</td><td>¢</td><td>01/21/20 18:38</td><td>01/22/20 15:29</td><td>1</td></th0<>	Di-n-octyl phthalate	<0.063		0.19	0.063	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
Huber 1.1 0.000 0.0011 mg/kg 0.1/2/1/20 18:38 01/22/20 18:12 1 Hexachlorobenzene <0.0089	Fluoranthene	1 1		0.038	0.0071	ma/Ka		01/21/20 18:38	01/22/20 15:29	
Haxachlorobenzene <t< td=""><td>Fluorene</td><td>0.079</td><td></td><td>0.000</td><td>0.0054</td><td>ma/Ka</td><td>÷</td><td>01/21/20 18:38</td><td>01/22/20 15:29</td><td>1</td></t<>	Fluorene	0.079		0.000	0.0054	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	1
Hexachlorobutadiene <0.061	Hexachlorobenzene	<0.0089		0.078	0.0089	ma/Ka	¢	01/21/20 18:38	01/22/20 15:29	1
Hexachlorocyclopentadiene <0.001	Hexachlorobutadiene	<0.061		0.070	0.061	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	
Hexachloroethane < 0.052 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	Hexachlorocyclopentadiene	<0.001		0.78	0.001	ma/Ka	÷	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 Indeno[1,2,3-cd]pyrene 0.015 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 <0.062 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	Hexachloroethane	<0.22		0.10	0.059	ma/Ka	÷.	01/21/20 18:38	01/22/20 15:29	1
Indentify 1, 2, 5-cd pyrene 0.13 0.030 0.043 mg/kg 0.012 //20 16:30 0.122/20 16:20 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 <0.12 0.38 0.12 mg/kg 01/21/20 18:38 01/22/20 15:29 1 4-Nitrobenzene <0.0096 0.038 0.0	Indeno[1 2 3-cd]pyrene	0.000		0.038	0.010	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	
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	Isophorope	<0.13		0.000	0.043	ma/Ka	÷	01/21/20 18:38	01/22/20 15:29	1
2-Methylphenol <0.014	2 Mothylaanhthalono	0.040		0.10	0.071	ma/Ka	÷	01/21/20 18:38	01/22/20 15:20	1
2 Michtyphenol <0.002	2-Methylnaphtnalene	<0.014	J	0.070	0.062	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	3 & 4 Methylphenol	<0.002		0.10	0.064	ma/Ka	Ŭ	01/21/20 18:38	01/22/20 15:20	1
Augmentation 0.020 g 0.020 g 0.000 mg/Kg 0.0000 mg/Kg 0.01/21/20 16.36 01/22/20 15.29 1 2-Nitroaniline <0.052	Nanhthalono	0.004		0.10	0 0050	mg/Kg	ţ.	01/21/20 18:38	01/22/20 15:20	1
3-Nitroaniline <0.12	2-Nitroaniline	<0.023	•	0.000	0.052	mg/Kg	÷÷÷÷	01/21/20 18:38	01/22/20 15:29	
4-Nitrobenzene <0.0096	3-Nitroaniline	<0.002		0.10	0.002	ma/Ka	÷.	01/21/20 18:38	01/22/20 15:20	1
Nitrobenzene <0.0096 0.038 0.0096 mg/Kg $\stackrel{\circ}{\sim}$ 01/21/20 18:38 01/22/20 15:29 1 2-Nitrophenol <0.091	4-Nitroaniline	<0.12		0.00	0.12	ma/Ka	÷.	01/21/20 18:38	01/22/20 15:20	1
2-Nitrophenol <0.091 0.38 0.091 ma/Ka 3 01/21/20 18:38 01/22/20 15:29 1	Nitrobenzene	20.10 2000 0>		0.00	0 0006	mg/Kg		01/21/20 18:38	01/22/20 15:20	
	2-Nitrophenol	<0.0090		0.38	0 091	ma/Ka	₽	01/21/20 18:38	01/22/20 15:29	1

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

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

5

6

Method: 8270D - Semivolatile	Organic Co	mpounds	(GC/MS) (Co	ontinued)				
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	<u> </u>	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	с. с. с. с. _ф .	01/16/20 16:28	01/17/20 21:19	1
Cadmium	0.45	В	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	в	12	6.0	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Lead	27		0.29	0.13	mg/Kg	· · · · · · · À	01/16/20 16:28	01/17/20 21:19	1
Magnesium	20000		5.8	2.9	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Calcium	32000	в	12	2.0	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Manganese	500	B	0.58	0.083	ma/Ka	ф	01/16/20 16:28	01/17/20 21:19	
Nickel	38	-	0.58	0.17	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Selenium	< 0.34		0.58	0.34	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Silver	3.0		0 29	0 074	ma/Ka	 ¢	01/16/20 16:28	01/17/20 21.19	
Thallium	1.7		0.58	0.29	ma/Ka	¢	01/16/20 16:28	01/17/20 21:19	1
Vanadium	24		0.29	0.068	ma/Ka	☆	01/16/20 16:28	01/17/20 21:19	1
Zinc	71		1.2	0.51	ma/Ka		01/16/20 16:28	01/17/20 21:19	1
Potassium	2500		29	10	ma/Ka	☆	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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

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

Job ID: 500-176313-1

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

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Method: 6010B - Metals (ICP)	- TCLP (Col	ntinued)	Ы	MDI	Unit	п	Broparod	Applyzod	Dil Eac
	340	Quaimer	<u> </u>	0.50	ma/l		01/20/20 07:41	01/20/20 18:31	1
Chromium	<0.010		0.025	0.00	ma/l		01/20/20 07:41	01/20/20 18:31	1
Cobalt	< 0.010		0.025	0.010	ma/L		01/20/20 07:41	01/20/20 18:31	
Copper	<0.010		0.025	0.010	ma/l		01/20/20 07.41	01/20/20 18:31	1
Iron	<0.20		0.40	0.20	ma/L		01/20/20 07:41	01/20/20 18:31	1
Lead	< 0.0075		0.0075	0.0075	ma/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 Eas	t							
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/N	IS) - 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	٨	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:23	1
Method: 7470A - TCLP Mercui	ry - 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 (CV)	AA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0063	mg/Kg	<u> </u>	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
На	7.5	н	0.2	0.2	SU			01/23/20 22:55	1

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

Laboratory: Eurofins TestAmerica, Chicago Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program Identification Number **Expiration Date** Illinois NELAP IL00035 04-30-20 5 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 Solid 3010A Cadmium 6010B 6010B 3010A Solid Calcium 6010B 3010A Solid Chromium 6010B 3010A Solid Cobalt 6010B 3010A Solid Copper 3010A 6010B Solid Iron 3010A 6010B Solid Lead 6010B 3010A Solid Magnesium 12 13 6010B 3010A Solid Manganese 6010B 3010A Solid Nickel 6010B 3010A Solid Potassium 3010A Selenium 6010B Solid 6010B 3010A Solid Silver 3010A Solid 6010B Vanadium 6010B 3010A Solid Zinc 6010B 3050B Solid Antimony 6010B 3050B Solid Arsenic 6010B 3050B Solid Barium 6010B 3050B Solid Beryllium 6010B 3050B Cadmium Solid Calcium 3050B 6010B Solid 6010B 3050B Solid Chromium 3050B 6010B Solid Cobalt 6010B 3050B Solid Copper 6010B 3050B Solid Iron 6010B 3050B Solid Lead 6010B 3050B Solid Magnesium 3050B 6010B Solid Manganese 6010B 3050B Solid Nickel 6010B 3050B Solid Potassium 6010B 3050B Solid Selenium 6010B 3050B Solid Silver 6010B 3050B Solid Sodium Thallium 6010B 3050B Solid 6010B 3050B Solid Vanadium 6010B 3050B Zinc Solid 6020A 3010A Solid Antimony 6020A 3010A Solid Thallium 7470A 7470A Solid Mercury 7471B 7471B Solid Mercury 5035 8260B Solid 1,1,1-Trichloroethane 8260B 5035 Solid 1,1,2,2-Tetrachloroethane

Identification Number

IL00035

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichloroethane

1,2-Dichloropropane

2-Butanone (MEK)

2-Hexanone

Acetone

Benzene

Bromoform

Bromomethane

Carbon disulfide

Chlorobenzene

Chloromethane

Ethylbenzene

Styrene

Toluene

cis-1.2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

Dibromofluoromethane

Methyl tert-butyl ether

Methylene Chloride

Tetrachloroethene

Trichloroethene

Vinyl acetate

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

1,2,4-Trichlorobenzene

1.2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2.4-Dinitrotoluene

2,6-Dinitrotoluene

2-Chloronaphthalene

2,2'-oxybis[1-chloropropane]

Chloroethane

Chloroform

Carbon tetrachloride

1,3-Dichloropropene, Total

4-Methyl-2-pentanone (MIBK)

Bromodichloromethane

Expiration Date

04-30-20

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

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Authority

8260B

8270D

Illinois

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Solid

Program

NELAP

Eurofins	TestAmerica,	Chicago
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Identification Number

IL00035

2-Chlorophenol

2-Nitroaniline

2-Nitrophenol

3-Nitroaniline

4-Chloroaniline

4-Nitroaniline

4-Nitrophenol

Acenaphthene

Anthracene

Acenaphthylene

Benzo[a]pyrene

Benzo[a]anthracene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Bis(2-chloroethyl)ether

Butyl benzyl phthalate

Dibenz(a,h)anthracene

Carbazole

Chrysene

Dibenzofuran

Fluoranthene

Fluorene

Diethyl phthalate

Dimethyl phthalate

Di-n-butyl phthalate

Di-n-octyl phthalate

Hexachlorobenzene

Hexachlorobutadiene

Indeno[1,2,3-cd]pyrene

N-Nitrosodi-n-propylamine

N-Nitrosodiphenylamine

Pentachlorophenol

Phenanthrene

Hexachloroethane

Isophorone

Naphthalene

Nitrobenzene

Hexachlorocyclopentadiene

Bis(2-chloroethoxy)methane

Bis(2-ethylhexyl) phthalate

2-Methylnaphthalene 2-Methylphenol

3 & 4 Methylphenol

3,3'-Dichlorobenzidine

4,6-Dinitro-2-methylphenol

4-Chloro-3-methylphenol

4-Bromophenyl phenyl ether

4-Chlorophenyl phenyl ether

Expiration Date

04-30-20

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

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Authority

8270D

Illinois

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Solid

Program

NELAP

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

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	рН	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

Chain of Custody Record 423029 & eurofins

Environment Testing TestAmerica

	Regula	tory Prog	ram:	DW I	NPDES		RCRA		Other:		-			-		LCOC NO		
	Project Mar	ager: In	Jeo Fi	scher	- 5	ite C	ontac	t:			0	ate: 1-	14-2	0		000 110	of I	COCs
Client Contact	Tel/Email:	mfisch	are en	vdenj	Ni.CA	ster/C	entac	t: R.	w	zish	+ 0	arrier:	TT	TT	TT	Sampler	mi	ischei
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iress: 33 W- MONROL SIC 1803	CALEND	AR DAYS	WOR	KING DAYS		11		12	2 3							Walk-in	Client:	
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one: 312-393-1-100	X	2	weeks			ΣX		3	2	5	11					1		
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ossible Hazard Identification:	oace List any	FPA Was	te Codes fe	or the sam	ple in f	he												
Are any samples from a listed EPA Hazardous waste?	ease clot any		1127	-							1			- F	Archive fo	or	Months	
a statute lab is to dispose of the sample.		D	Ny.	nknown				Return	to Clie	nt	X	Disposal I	y Lab],		-	
Comments Section if the lab is to dispose of the sample.	Pois	ONP										-						
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Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments:	Pois	on B															ID No.	
Comments Section if the lab is to dispose of the sample.	Pois	ON B				_	-	-	Coole	Temp	. <i>(</i>)C): C	bs'd:		Corr'd:		Therm	ID No.:	
Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments: Custody Seals Intact: Yes No	Custody	v Seal No		Dato/"	Time	175	Race	Ved	Cool	Temp	. (jC): C	bs'd:	Com	Corr'd:_ any:	-	Therm	ID No.:	1225
Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments: Custody Seals Intact: Yes No Relinquished by: A No No	Custody Compar	y:		Date/	Time	225	Race	Typed a	Coole	Temp	. (jc): c	bs'd:	Com	Corr'd:_ any:		Therm	ID No.: Time:	1552
Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments: Custody Seals Intact: Yes No Relinquished by: Yes No	Custody Compar	y Seal No		Date/	Time	225	Rece	Wed I	Coole	Temp	(yc): c	bs'd:	Comp	Corr'd:_ any: any:		Date/	ID No.: Time: Time:	1552
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Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Special Instructions/QC Requirements & Comments: Custody Seals Intact: Yes No Relinquished by: Relinquished by:	Custody Compar	y:	//20	Date/ Date/ Date/ Jate/	Time Time: ZC	225	Rece		Coolin y: oy:	Temp	by: 1	bs'd:	Comp	Corr'd: any: any:	~10	Date Date	ID No.: Time: Time:	1225

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Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Login Number: 176313 List Number: 1 Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 500-176313-1

List Source: Eurofins TestAmerica, Chicago



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 III. 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 III. 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 3	7 (IL 64): Pum	p 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: 60	160
County:	Cook	Township:		
Lat/Long	of approximate center of sit	e in decimal degrees (D	D.ddddd) to five de	ecimal places (e.g., 40.67890, -90.12345):
Latitude:	41.91151 Longitu	ude: - <u>87.86427</u>		
	(Decimal Degrees)	(-Decimal Degre	es)	
Identify ho	ow the lat/long data were de	etermined:		
	\bigcirc Map Interpolation \bigcirc) Photo Interpolation	🔿 Survey 🕢 O	ther
Google E	arth			
IEPA Site	Number(s), if assigned:	BOL:	BOW:	BOA:
Approxim	ate Start Date (mm/dd/yyy	/): <u>TBD</u>	Approximate	End Date (mm/dd/yyyy): TBD
Estimated	d Volume of debris (cu. Yd.): 106		

II. Owner/Operator Information for Source Site

Site Owner		Site Operator					
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportat				
Street Address:	201 West Center Court	Street Address:	201 We	st Center Court			
PO Box:		PO Box:					
City:	Schaumburg State: IL	City:	Schaumburg	State: IL			
Zip Code:	60196 Phone: 847-705-4122	Zip Code:	60196 Phone:	847-705-4122			
Contact:	Irma Romiti-Johnson	Contact:	Irma I	Romiti-Johnson			
Email, if available:	irma.romiti-johnson@illinois.gov	Email, if available:	irma.romiti-johns	on@illinois.gov			

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. 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 III. 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 III. 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. <u>Michael Fischer</u> (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 III. 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 Desig	n International inc.							
Street Address:	33 West Monroe Stre	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:



Uncontaminated Soil Certification

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

		IEPA Tier 1 Soil Remediation Objectives								Maximum Allowed	Field Sample ID	2789V-10-B01 (0-6)	2789V-10-B01 (0-6) DUP
Analyte	Units					Soil Component		Backg	round	Concentration	Ormala Drath (frat)		. ,
, undig to	0	Residentia	I Properties	Constructi	on Workers	of the Groundwater				CCDD	Sample Depth (feet)	U - 0	U-0
						Ingestion Route				ma/ka	Lab Sample ID	27901/10	27901/10
		la se sti se	la halatian	la na sti su	lash a ladi a u	Olara I		Ohlassa	MOA	mg/kg	Data Callastad	27699-10	27699-10
Volatile Organic Analytical Parameters		ingestion	Innalation	ingestion	Innalation	Class I		Chicago	WISAS	рн 6.25-9.0	Date Collected	1/14/2020	1/14/2020
	mallea	70.000	100000		100000	25	*			25		0.018	0.020
	тіу/ку	70,000	100000		100000	25				25		0.018	0.039
Semivolatile Organic Analytical Parameters													
2-Methylnaphthalene	mg/kg	310		820		7.2	*		0.14	 E70		ND	0.018
Acenaphthene	mg/kg	23 000		610,000		12 000	*	0.09	0.13	12 000		ND	0.011
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
Chrysene	mg/kg	9		1,700		49	*	0.99	1.7	9		0.018	0.023
Fluoranthene	mg/ka	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 Beryllium	mg/kg	5,500	1 300	410	44 000		*		0.59	1,500		0.65	0.63
Cadmium	ma/ka	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
Lead	ma/ka	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		2200	31
Silver	ma/ka	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
pri										0.23 - 9.0		7.0	1.1
Antimeny TCL D	m c //					0.000						ND	ND
	mg/L mg/l					0.006							
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, I CLP	mg/L					0.1						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, I CLP	mg/L					0.15						0.71	0.56
Nickel TCLP	mg/L					0.002						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, I CLP	mg/L					0.049 F						ND 0.022	ND 0.22
Line, rolf	ing/L					5					L	0.023	0.23
Manganese SPLP	ma/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

Rill W

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

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

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

RL

0.016

0.0016

0.0016

0.0016

MDL Unit

0.0070 mg/Kg

0.00041 mg/Kg

0.00033 mg/Kg

0.00047 mg/Kg

D

Prepared

01/14/20 17:12 01/21/20 14:27

01/14/20 17:12 01/21/20 14:27

01/14/20 17:12 01/21/20 14:27

* 01/14/20 17:12 01/21/20 14:27

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

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

Analyte

Acetone

Benzene

Bromoform

Bromodichloromethane

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

Result Qualifier

0.018

< 0.00041

< 0.00033

< 0.00047

Job ID: 500-176313-1

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

Analyzed

4-Bromofluorobenzene (Surr)	111		75 131				01/11/20 17.12	01/21/20 14.27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00051		0.0032	0.00051	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
Vinyl acetate	<0.0014		0.0040	0.0014	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
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	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
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	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
Toluene	<0.00040		0.0016	0.00040	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
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	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
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	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
Methylene Chloride	<0.0016		0.0040	0.0016	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
Ethylbenzene	<0.00077		0.0016	0.00077	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
1,2-Dichloropropane	<0.00041		0.0016	0.00041	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-Dichloroethane	<0.0013		0.0040	0.0013	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
Dibromochloromethane	<0.00052		0.0016	0.00052	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
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	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
Chloroform	<0.00056		0.0016	0.00056	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
Chlorobenzene	<0.00059		0.0016	0.00059	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
Carbon disulfide	<0.00083		0.0040	0.00083	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
Bromomethane	< 0.0015		0.0040	0.0015	mg/Kg	¢	01/14/20 17:12	01/21/20 14:27	1

Surrogate	%Recovery Qua	alifier 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	<u></u>	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

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 - Semivolat Analyte	t <mark>ile Organic Co</mark> Result	mpounds Qualifier	(GC/MS) (Co RL	ntinued MDL) Unit	D	Prepared	Analyzed	Dil Fac	5
Benzo[a]pyrene	< 0.0075		0.039	0.0075	mg/Kg	<u> </u>	01/21/20 18:38	01/22/20 15:54	1	
Benzolblfluoranthene	0.040		0.039	0.0084	mg/Kg	¢	01/21/20 18:38	01/22/20 15:54	1	6
Benzo[q,h,i]pervlene	0.021	J	0.039	0.013	mg/Kg	сф	01/21/20 18:38	01/22/20 15:54	1	C
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	ч. ч. ч. ч. ф.	01/21/20 18:38	01/22/20 15:54	1	6
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	¢	01/21/20 18:38	01/22/20 15:54	1	0
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	¢	01/21/20 18:38	01/22/20 15:54	1	6
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	с. с. с. с. _ф .	01/21/20 18:38	01/22/20 15:54	1	3
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	ф	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	ф	01/21/20 18:38	01/22/20 15:54		
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	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	сф	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	с ф	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	ф	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	· · · · · · ф	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	ч. ч. ч. ч. ф.	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	с. с. с. с. ф.	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	ф	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	с. с. с. с. ф.	01/21/20 18:38	01/22/20 15:54	1	
3 & 4 Methylphenol	< 0.065		0.20	0.065	mg/Kq	¢	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	φ.	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	ч. ч. ч. ч. ф.	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

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

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Lab Sample ID: 500-176313-6 Matrix: Solid

Percent Solids: 84.6

5

6

Method: 8270D - Semivolatile	Organic Co	ompounds Qualifier	s (GC/MS) (Co	ntinued)) Unit	п	Prenared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	ma/Ka		01/21/20 18:38	$\overline{01/22/20}$ 15.54	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	ma/Ka	₽	01/21/20 18:38	01/22/20 15:54	· · · · · · · · 1
N-Nitrosodinhenvlamine	<0.046		0.20	0.046	mg/Kg	÷.	01/21/20 18:38	01/22/20 15:54	1
2 2'-ovybis[1-chloropropage]	<0.040	*	0.20	0.045	mg/Kg	÷	01/21/20 18:38	01/22/20 15:54	1
Pentachlorophenol	<0.043		0.20	0.040	mg/Kg	2 -	01/21/20 18:38	01/22/20 15:54	
Phononthrono	<0.02 0.027		0.70	0.02	mg/Kg	-05-	01/21/20 10:30	01/22/20 15:54	1
Phonol	<0.037	J	0.039	0.0054	mg/Kg	т Ю	01/21/20 10:30	01/22/20 15:54	1
	0.000		0.20	0.000	mg/Kg	·	01/21/20 10:30	01/22/20 15:54	······ 1
1 2 4 Trichlerchenzone	0.000		0.039	0.0077	mg/Kg	-74 -74	01/21/20 10:30	01/22/20 15:54	1
	<0.042		0.20	0.042	mg/Kg	**	01/21/20 10:30	01/22/20 15.54	1
	<0.069		0.39	0.009	mg/Kg	· ·	01/21/20 10:30	01/22/20 15.54	ا ۲
2,4,6-1 richlorophenol	<0.13		0.39	0.13	mg/ĸg	74	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		MDL	Unit	- _	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.22	mg/Kg	-Q:	01/16/20 16:28	01/17/20 21:23	1
Arsenic	9.9		0.57	0.19	mg/Kg	-Q-	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	В	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	В	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	В	11	1.9	mg/Kg	¢	01/16/20 16:28	01/17/20 21:23	1
Manganese	560	В	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
	- 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: Environmental Design International, Inc. Project/Site: IDOT - PTB 174-009 - WO 066

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

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

Job ID: 500-176313-1

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

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 (I0	CP) - SPLP Eas	t							
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 (I0	CP/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	٨	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:25	1
	rcury - 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
рН	7.6	н	0.2	0.2	SU			01/23/20 22:58	1

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

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

Job ID: 500-176313-1

Lab Sample ID: 500-176313-7 Matrix: Solid

Percent Solids: 85.9

Analyte Result Qualitier RL MDL Unit D Prepared Analyzed Diff Acetone 0.039 0.024 0.0011 mg/Kg 0111/4/20171:12 01/21/2014:52 Diff Bernzene <0.00062 0.0024 0.00049 mg/Kg 011/4/20171:12 01/21/2014:52 Diff Diff <t< th=""></t<>
Acetone 0.039 0.024 0.011 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Benzene <0.00062 0.0024 0.00062 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Bromodichloromethane <0.00071 0.0024 0.00071 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Bromodichloromethane <0.0023 0.0061 0.0023 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Semondichloromethane <0.0027 0.0061 0.0027 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Carbon disulfide <0.0013 0.0061 0.0013 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Carbon disulfide <0.0018 0.0024 0.00070 mg/kg 0 01/14/20 17:12 01/21/20 14:52 Chlorostnane <0.0024 0.00084 mg/kg 0 01/14/20 17:12
Benzene <0.00062 0.0024 0.00024 0.00024 0.01/14/20 17.12 0.1/21/20 14.52 Bromodichloromethane <0.00071
Bromodichloromethane <0.00049 0.0024 0.00049 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Bromoform <0.0023
Bromoform <0.00071 0.0024 0.00071 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Bromomethane <0.0023 0.0061 0.0027 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Carbon disulfide <0.0007 0.0061 0.0027 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Carbon disulfide <0.00070 0.0024 0.00070 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Chlorobenzene <0.00089 0.0024 0.00078 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Chlorobenzene <0.00084 0.0024 0.00084 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Chloromethane <0.00084 0.0024 0.00084 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Chloromethane <0.00086 0.0024 0.00073 mg/Kg © 01/14/20 17:12 01/21/20 14:52 Dibromochloromethane <0.00079 0.0024 0.00078 mg/Kg © 01/14/20 17:12
Brommethane <0.0023 0.0061 0.0023 mg/kg © 01/14/20 17:12 01/21/20 14:52 2-Butanone (MEK) <0.0027
2-Butanone (MEK) <0.0027
Carbon disulfide <0.0013
Carbon tetrachloride <0.00070
Chlorobenzene <0.0089 0.0024 0.00089 mg/Kg image of the
Chloroethane <0.0018 0.0061 0.0018 mg/Kg 01/14/20 17:12 01/21/20 14:52 Chloroform <0.00084
Chloroform<0.00840.00240.0084mg/Kg01/14/20 17:1201/21/20 14:52Chloromethane<0.0024
Chloromethane <0.0024
cis-1,2-Dichloroethene<0.000680.00240.00068mg/Kg*01/14/20 17:1201/21/20 14:52cis-1,3-Dichloropropene<0.00073
cis-1,3-Dichloropropene<0.000730.00240.00073mg/Kg01/14/2001/21/2014:52Dibromochloromethane<0.00079
Dibromochloromethane<0.000790.00240.00079mg/Kg*01/14/2017:1201/21/2014:521,1-Dichloroethane<0.0083
1,1-Dichloroethane<0.000830.00240.00083mg/Kg* 01/14/20 17:1201/21/20 14:521,2-Dichloroethane<0.0019
1,2-Dichloroethane<0.00190.00610.0019mg/Kg*01/14/20 17:1201/21/20 14:521,1-Dichloroethene<0.00083
1,1-Dichloroethene<0.000830.00240.00083mg/Kg©01/14/2017:1201/21/2014:521,2-Dichloropropane<0.00063
1,2-Dichloropropane <0.00063
1,3-Dichloropropene, Total <0.00085
Ethylbenzene<0.00120.00240.0012mg/Kg**01/14/2017:1201/21/2014:522-Hexanone<0.0019
2-Hexanone <0.0019
Methylene Chloride <0.0024 0.0061 0.0024 mg/Kg ** 01/14/20 17:12 01/21/20 14:52 4-Methyl-2-pentanone (MIBK) <0.0018
4-Methyl-2-pentanone (MIBK) <0.0018
Methyl tert-butyl ether <0.00071 0.0024 0.00071 mg/Kg * 01/14/20 17:12 01/21/20 14:52 Styrene <0.00073
Styrene <0.00073 0.0024 0.00073 mg/Kg * 01/14/20 17:12 01/21/20 14:52 1,1,2,2-Tetrachloroethane <0.00077
1,1,2,2-Tetrachloroethane<0.000770.00240.00077mg/Kg $\stackrel{:}{\sim}$ 01/14/2017:1201/21/2014:52Tetrachloroethene<0.00083
Tetrachloroethene <0.00083 0.0024 0.00083 mg/Kg * 01/14/20 17:12 01/21/20 14:52
Toluene <0.00061 0.0024 0.00061 mg/Kg 🌣 01/14/20 17:12 01/21/20 14:52
trans-1,2-Dichloroethene <0.0011 0.0024 0.0011 mg/Kg 🔅 01/14/20 17:12 01/21/20 14:52
trans-1,3-Dichloropropene <0.00085 0.0024 0.00085 mg/Kg 201/14/20 17:12 01/21/20 14:52
1,1,1-Trichloroethane <0.00081 0.0024 0.00081 mg/Kg 🌣 01/14/20 17:12 01/21/20 14:52
1.1.2-Trichloroethane <0.0010 0.0024 0.0010 mg/Kg 🔅 01/14/20 17:12 01/21/20 14:52
Trichloroethene <0.00082 0.0024 0.00082 mg/Kg 201/14/20 17:12 01/21/20 14:52
Vinyl acetate <0.0021 0.0061 0.0021 ma/Ka $3000000000000000000000000000000000000$
Vinvl chloride <0.0011 0.0024 0.0011 ma/Ka × 01/14/20 17:12 01/21/20 14:52
Xylenes, Total <0.00078 0.0048 0.00078 mg/Kg © 01/14/20 17:12 01/21/20 14:52
Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil F
4-Bromofluorobenzene (Surr) 109 75_131 01/14/20 17:12 01/21/20 14:52
Dibromofluoromethane 92 75_126 01/14/20 17:12 01/21/20 14:52
1 2-Dichloroethane-d4 (Surr) 94 70_134 01/14/20 17:12 01/21/20 14:52
Toluene_d8 (Surr) 101 75 124 01/14/20 17:12 01/21/20 14:52

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

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 - Semivolati Analyte	lle Organic Co Result	mpounds Qualifier	(GC/MS) (Co RL	ntinued MDL) Unit	D	Prepared	Analyzed	Dil Fac	5
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	<u></u>	01/21/20 18:38	01/22/20 16:19	1	
Benzolblfluoranthene	0.065		0.038	0.0083	mg/Kg	¢	01/21/20 18:38	01/22/20 16:19	1	6
Benzo[q,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	ma/Ka		01/21/20 18:38	01/22/20 16:19	1	6
Bis(2-ethylhexyl) phthalate	< 0.070		0.19	0.070	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	Ö
4-Bromophenyl phenyl ether	< 0.051		0.19	0.051	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
Butyl benzyl obthalate	<0.073		0.19	0.073	ma/Ka		01/21/20 18:38	01/22/20 16:19		9
Carbazole	<0.096		0.10	0.096	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
4-Chloroaniline	<0.18		0.77	0.000	ma/Ka	Å	01/21/20 18:38	01/22/20 16:19	1	
4-Chloro-3-methylphenol	<0.10		0.77	0.10	ma/Ka	÷÷÷÷	01/21/20 18:38	01/22/20 10:10		
2-Chloronanbthalene	<0.13		0.00	0.10	ma/Ka	÷Č-	01/21/20 18:38	01/22/20 10:10	1	
	<0.042		0.19	0.042	mg/Kg	۰. ۲	01/21/20 10:30	01/22/20 10:19	1	
	<0.005		0.19	0.005	mg/Kg	·····	01/21/20 10:30	01/22/20 10:19		
	<0.043		0.19	0.045	mg/Kg	**	01/21/20 10:30	01/22/20 10.19	1	
	0.054		0.038	0.010	mg/Kg	*	01/21/20 18:38	01/22/20 16:19	1	4
Dibenz(a,n)anthracene	<0.0074		0.038	0.0074	mg/Kg		01/21/20 18:38	01/22/20 16:19	1	
Dibenzoturan	<0.045		0.19	0.045	mg/Kg	34F W	01/21/20 18:38	01/22/20 16:19	1	
1,2-Dichlorobenzene	< 0.046		0.19	0.046	mg/Kg	بر س	01/21/20 18:38	01/22/20 16:19	1	
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	ير.	01/21/20 18:38	01/22/20 16:19	1	
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	-\$ 2 -	01/21/20 18:38	01/22/20 16:19	1	
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	-\$ 2 -	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	Ċ.	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	Ċ.	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	, a a a a a a	01/21/20 18:38	01/22/20 16:19	1	
Isophorone	< 0.043	-	0.19	0.043	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
2-Methylnaphthalene	0.018	л	0.077	0.0071	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
2-Methylphenol	< 0.062		0.19	0.062	ma/Ka	• • • • • • • •	01/21/20 18:38	01/22/20 16:19		
3 & 4 Methylphenol	<0.064		0 19	0 064	mg/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
Nanhthalene	0.004	л	0.038	0 0059	ma/Ka	¢	01/21/20 18:38	01/22/20 16:19	1	
2-Nitroaniline	<0.023	•	0.000	0.052	mg/Kg	÷.	01/21/20 18:38	01/22/20 16:10	····· 1	
3-Nitroaniline	<0.002		0.10	0.002	ma/Ka	÷	01/21/20 18:38	01/22/20 16:10	1	
4-Nitroaniline	-0.12		0.00	0.12	ma/Ka	-Ö-	01/21/20 18:20	01/22/20 10:19	י 1	
Nitrobenzene	~0.000		0.00	0.10	mg/Kg		01/21/20 10.30	01/22/20 10.19	۱ ۰۰۰۰۰۰۰	
	<0.009b		0.000	0.0096	mg/Kg	*	01/21/20 10.38	01/22/20 10.19	ا ۸	
z-miliophenol	<0.091		0.38	0.091	ing/rkg	. بېر	01/21/2018:38	01/22/2010:19	Т	

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

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

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Method: 8270D - Semivolatile	Organic Co	mpounds	(GC/MS) (Co	ontinued)				
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	<u> </u>	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	В	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	В	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	В	110	18	mg/Kg	¢	01/16/20 16:28	01/20/20 15:52	10
Manganese	430	В	0.54	0.078	mg/Kg	ф.	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	ma/L		01/20/20 07:41	01/20/20 18:54	1

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

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

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

Method: 6010B - Metals (ICP)	- TCLP (Coi	ntinued)							
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	t							
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	٨	0.0020	0.0020	mg/L		01/20/20 07:41	01/20/20 19:33	1
Method: 7470A - TCLP Mercu	ry - 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 (CV	AA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0059	mg/Kg	<u> </u>	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
рН	7.7	н	0.2	0.2	SU			01/23/20 23:02	1

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

Laboratory: Eurofins TestAmerica, Chicago Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program Identification Number **Expiration Date** Illinois NELAP IL00035 04-30-20 5 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 Solid 3010A Cadmium 6010B 6010B 3010A Solid Calcium 6010B 3010A Solid Chromium 6010B 3010A Solid Cobalt 6010B 3010A Solid Copper 3010A 6010B Solid Iron 3010A 6010B Solid Lead 6010B 3010A Solid Magnesium 12 13 6010B 3010A Solid Manganese 6010B 3010A Solid Nickel 6010B 3010A Solid Potassium 3010A Selenium 6010B Solid 6010B 3010A Solid Silver 3010A Solid 6010B Vanadium 6010B 3010A Solid Zinc 6010B 3050B Solid Antimony 6010B 3050B Solid Arsenic 6010B 3050B Solid Barium 6010B 3050B Solid Beryllium 6010B 3050B Cadmium Solid Calcium 3050B 6010B Solid 6010B 3050B Solid Chromium 3050B 6010B Solid Cobalt 6010B 3050B Solid Copper 6010B 3050B Solid Iron 6010B 3050B Solid Lead 6010B 3050B Solid Magnesium 3050B 6010B Solid Manganese 6010B 3050B Solid Nickel 6010B 3050B Solid Potassium 6010B 3050B Solid Selenium 6010B 3050B Solid Silver 6010B 3050B Solid Sodium Thallium 6010B 3050B Solid 6010B 3050B Solid Vanadium 6010B 3050B Zinc Solid 6020A 3010A Solid Antimony 6020A 3010A Solid Thallium 7470A 7470A Solid Mercury 7471B 7471B Solid Mercury 5035 8260B Solid 1,1,1-Trichloroethane 8260B 5035 Solid 1,1,2,2-Tetrachloroethane

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

Job ID: 500-176313-1

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	4
Illinois		NELAP	IL00035 04-30-20	
8260B	5035	Solid	1,1,2-Trichloroethane	5
8260B	5035	Solid	1,1-Dichloroethane	
8260B	5035	Solid	1,1-Dichloroethene	6
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)	8
8260B	5035	Solid	2-Hexanone	0
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)	0
8260B	5035	Solid	Acetone	3
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	12
8260B	5035	Solid	Chlorobenzene	
8260B	5035	Solid	Chloroethane	13
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		
82700	35/1	Solid	1.2.4.Trichlorobenzene	
82700	3541	Solid		
82700	3541	Solid		
82700	3541	Solid		
8270D	2541	Solid		
0270D	2541	Solid	2,2 - Oxybis[I-chilorophopalle]	
82700	3541	Solid	2,4,5-Trichlorophenol	
82700	25/1	Solid		
021UD	JD4 I	Solid		
021UD	JD4 I	Solid	2,4-Dimensional	
021UD	3041	SUIIU	2,4-Dinitropheno	
02/UU	3541	00110 Colid		
02/00	3041	SUIU		
827UD	3541	50110	2-Unioronaphthalene	

Identification Number

IL00035

2-Chlorophenol

2-Nitroaniline

2-Nitrophenol

3-Nitroaniline

4-Chloroaniline

4-Nitroaniline

4-Nitrophenol

Acenaphthene

Anthracene

Acenaphthylene

Benzo[a]pyrene

Benzo[a]anthracene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Bis(2-chloroethyl)ether

Butyl benzyl phthalate

Dibenz(a,h)anthracene

Carbazole

Chrysene

Dibenzofuran

Fluoranthene

Fluorene

Diethyl phthalate

Dimethyl phthalate

Di-n-butyl phthalate

Di-n-octyl phthalate

Hexachlorobenzene

Hexachlorobutadiene

Indeno[1,2,3-cd]pyrene

N-Nitrosodi-n-propylamine

N-Nitrosodiphenylamine

Pentachlorophenol

Phenanthrene

Hexachloroethane

Isophorone

Naphthalene

Nitrobenzene

Hexachlorocyclopentadiene

Bis(2-chloroethoxy)methane

Bis(2-ethylhexyl) phthalate

2-Methylnaphthalene 2-Methylphenol

3 & 4 Methylphenol

3,3'-Dichlorobenzidine

4,6-Dinitro-2-methylphenol

4-Chloro-3-methylphenol

4-Bromophenyl phenyl ether

4-Chlorophenyl phenyl ether

Expiration Date

04-30-20

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

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Authority

8270D

Illinois

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Solid

Program

NELAP

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

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	рН	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

Chain of Custody Record

388794 🔅 eurofins

Environment Testing TestAmerica

Address:														
	Regul	atory Pro	gram: [DW	NPDES	5 🗌 1	RCRA		Other:	_			Т	TAL-8210
Client Contact	Project Ma	Project Manager: Mike Fischer				Site Contact:					Date: 1-14	-20	COC No:	-
Company Name: ED	Tel/Email:	WFISCH	neree	nuclos	shi.c	Labe	ontac	t: R	-WRI	isnt	Carrier:		of COCs	-
Address: 33 W. MUNIVE Ste, 1825		Analysis T	urnaround	d Time	-		111	1	nd				Sampler: M. Fische	-
City/State/Zip: Chick of IL 60663	CALEN	CALENDAR DAYS WORKING DAYS				1							For Lab Use Only:	
Phone: 312-393-1900		l if different fro	om Below			z		5	53				VVaik-In Client:	
Project Name: Data La		2	weeks			ZZ			ms				Lab Sampling.	
Site: > 7-94 ID / CCC ++		1	Week			Σg		N	NS				lob / SDG No :	
PO# 2 021 (1)		2	day			/ Mi	10	-					500, 300 NO.	
2031-001			Sample	1		MS	Jr	LC	10	4			200-11000	
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Sample Identification	Sample	Sample	(C=Comp, G=Grab)	Motrix	# of	erfo	フジ	ゴド	14	9-1		1.00	Sample Specific Notes	
Sample Identification	Date	Time	G=Glab)	Walrix	COIIL.			1		1			Sample Specific Notes	
27891-10-1301 (0-6)	1-14-20	1045	6	2	5		X)	$\langle X \rangle$	XX	X				
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Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO	3; 5=NaOH;	6= Other _												
Possible Hazard Identification:	e e e l'interne F		Carles for		ملم أبد الم	Sar	nple l	Dispo	osal (A	fee may	be assessed if sam	ples are retair	ned longer than 1 month)	- 1
Are any samples from a listed EPA Hazardous waste? Pre Comments Section if the lab is to dispose of the sample	ase List any E	EPA Waste	Codes for	the samp	pie in tr	ie								
	Poison	B	Vlinkr	nwo	-	1	Pot	irn to (Client	1	X anoral builtab	Archive for	Months	
				IOWIT	_	_			Chern		an sposal by Lab			
Special instructions/QC Requirements & Comments:														
Custody Seals Intart: Yes No	Custody S	eal No.:				-		Coo	oler Ten	np. ("C):	Obs'd:Cc	rr'd:	Therm ID No.:	-
Reinquished by	Company:	Company: Date/Time:]]			ime: 12	2 Received W: A					Company	5	Date Time: 008	
EDI		1-14-	-20	mach					11	T	1/14/20-14			
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Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Login Number: 176313 List Number: 1 Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 500-176313-1

List Source: Eurofins TestAmerica, Chicago