



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68 Office Phone Number, if available: _____

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

Shermer Road ROW on NE corner of Shermer and IL Rt 43 IDOT STA 500+30 to 505+50 (ISGS Site 2682-2)

City: Northbrook State: IL Zip Code: 60062

County: Cook Township: Northfield

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

Latitude: 42.13313 Longitude: -87.82094
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

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 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68

Latitude: 42.13313 Longitude: -87.82094

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2682-2. See Exhibits 2 and 2A and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015.

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

TestAmerica Lab Report No J98751-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015. CCDD/USFO facility in MSA County.

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

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

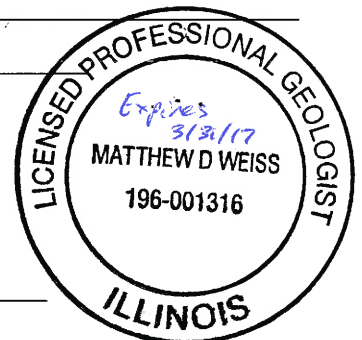
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/4/15
 Date:



Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A

Preliminary Site Investigation

FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-2)

Northbrook, IL

Terracon Project No. 11157102

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-2-B01 (0-2)	2682-2-B02 (0-2)	2682-2-B02 DUP (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	07/21/2015	07/17/2015	07/17/2015
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.041	<0.040
Acenaphthylene	mg/kg	0.03	0.07	85		0.0088	<0.041	<0.040
Anthracene	mg/kg	0.25	0.4	12000		0.012	<0.041	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.047	<0.041	<0.040
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.05	<0.041	<0.040
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.061	<0.041	<0.040
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.029	<0.041	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.032	<0.041	<0.040
Chrysene	mg/kg	1.2	2.7	88		0.062	<0.041	<0.040
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.041	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.15	<0.041	<0.040
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.041	<0.040
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.026	<0.041	<0.040
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.041	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.091	<0.041	<0.040
Pyrene	mg/kg	1.9	3.0	2300		0.12	<0.041	<0.040
Inorganic Analytical Parameters								
Arsenic	mg/kg	13	13	11.3		8.1	13	7.6
Barium	mg/kg	110	110	1500		59	120	130
Cadmium	mg/kg	0.6	0.6	5.2		0.17	0.18	0.1
Chromium, total	mg/kg	16.2	16.2	21		24	20	26
Lead	mg/kg	36	36	107		32	15	15
Mercury	mg/kg	0.06	0.06	0.1		0.061	0.062	0.036
Selenium	mg/kg	0.48	0.48	1.3		0.72	0.96	0.45
Silver	mg/kg	0.55	0.55	4.4		<0.29	<0.29	0.096
Antimony	mg/kg	4.0	4.0	5		0.55	0.41	0.6
Beryllium	mg/kg	0.59	0.59	22		0.79	1	1.1
Calcium	mg/kg	9,300	9,300	---		2500	3800	3500
Cobalt	mg/kg	8.9	8.9	20		13	12	11
Copper	mg/kg	19.6	19.6	2900		24	25	24
Cyanide	mg/kg	0.51	0.51	---		<0.57	<0.51	<0.62
Iron	mg/kg	15,900	15,900	15000		25000	28000	28000
Magnesium	mg/kg	4,820	4,820	325000		4800	3600	4500
Manganese	mg/kg	636	636	630		520	530	710
Nickel	mg/kg	18	18	100		26	26	25
Potassium	mg/kg	1,268	1,268	---		2200	1300	1500
Sodium	mg/kg	130	130	---		220	240	260
Thallium	mg/kg	0.32	0.32	2.6		<0.57	1.4	2
Vanadium	mg/kg	25.2	25.2	550		29	29	33
Zinc	mg/kg	95	95	5100		59	58	53
pH			6.25	9		7.53	6.67	7

Preliminary Site Investigation

FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-2)

Northbrook, IL

Terracon Project No. 11157102

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-2-B01 (0-2)	2682-2-B02 (0-2)	2682-2-B02 DUP (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	07/21/2015	07/17/2015	07/17/2015
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,SPLP	mg/L	---	---	---		0.38	0.2	0.2
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		18	14	14
Chromium,SPLP	mg/L	---	---	---		0.021	0.03	0.031
Cobalt,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,SPLP	mg/L	---	---	---		0.024	0.028	0.032
Iron,SPLP	mg/L	---	---	---		14	18	19
Lead,SPLP	mg/L	---	---	---		0.014	<0.0075	<0.0075
Magnesium,SPLP	mg/L	---	---	---		8	7.6	7.5
Manganese,SPLP	mg/L	---	---	---		0.079	0.1	0.098
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.014	0.019	0.018
Potassium,SPLP	mg/L	---	---	---		4.8	4.4	4.6
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----	----
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.026	0.041	0.041
Zinc,SPLP	mg/L	---	---	---		0.3	0.068	0.078
Cyanide,SPLP	mg/L	---	---	---		----	----	----
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		0.012	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.29	0.25	0.24
Cadmium,TCLP	mg/L	---	---	---		0.0022	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		93	63	60
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.014	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		0.52	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		30	17	15
Manganese,TCLP	mg/L	---	---	---		0.3	0.034	0.033
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		3.6	0.72	0.9
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.14	0.027	<0.10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-98751-1

Client Project/Site: IDOT - Northbrook - WO 002

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

7/30/2015 4:30:23 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Sample Summary	29
Client Sample Results	30
Definitions	160
Chain of Custody	161
Receipt Checklists	162

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Job ID: 500-98751-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98751-1

Receipt

The samples were received on 7/18/2015 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.3° C and 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batches 296607 and 296812 recovered outside control limits for one or more of the following analytes: Bromomethane and Tetrachloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples had 2,4,6-Tribromophenol biased low. All other surrogate recoveries for these samples were within limits. 2682-2-B02 (0-2) (500-98751-1), 2682-2-B02 DUP (0-2) (500-98751-2), 2682-4-B01 (0-5) (500-98751-3), 2682-4-B01 (5-11) (500-98751-4), 2682-4-B02 (0-5) (500-98751-5), 2682-4-B02 (5-11) (500-98751-6), 2682-4-B03 (0-5) (500-98751-7), 2682-4-B03 (5-11) (500-98751-8), 2682-4-B05 (0-5) (500-98751-9), 2682-4-B05 (5-11) (500-98751-10), 2682-4-B07 (0-5) (500-98751-11), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (5-11) (500-98751-21) and (500-98751-E-1-G MSD). 500-98751-1MS had Phenol-d5 biased low. All other surrogate recoveries for this sample were within limits. No further action was required.

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 500-296798 had 3 known poor performing analytes outside control limits: 4,6-Dinitro-2-methylphenol; 2,4-Dinitrophenol and Pentachlorophenol. These results have been reported and qualified. (LCS 500-296798/2-A) and (LCSD 500-296798/3-A)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-296798 recovered outside control limits (20%) for the following analytes: 4,6-Dinitro-2-methylphenol (28%); 2,4-Dinitrophenol (200%); and Pentachlorophenol (97%). The LCSD was within limits for these analytes, with the exception of Pentachlorophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the abundance of target and non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The initial calibration verification (ICV) was slightly outside of the method control limits for Sodium, at 111%rec., associated with the samples 2682-4-B07 (5-11) (500-98751-12), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (0-5) (500-98751-18), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (0-5) (500-98751-20) and 2682-4-B15 (5-11) (500-98751-21). The continuing calibration verifications (CCV), laboratory control sample (LCS), and all other QC was within the control limits, therefore the data has been reported.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B15 (5-11) (500-98751-21). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Job ID: 500-98751-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

Method(s) 7470A: The laboratory control sample (LCS) for batch 296658 recovered outside control limits for the following analytes: Hg. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.41	J F1	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13	F1	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	F1	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	F1	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12	F1	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25	F1	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1	0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	3800		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	530	F2	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.96	F1	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29	F1	0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	F1	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.23		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	63		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.72	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.6	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.068	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.062		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	6.67		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	19000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.60	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2) (Continued)

Lab Sample ID: 500-98751-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.1		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	3500		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	710		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.096	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	53	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	60		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	15		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J B	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	25		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	19		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.078	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.00		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0042	0.0033	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.55	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5) (Continued)

Lab Sample ID: 500-98751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.71		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	46	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.97		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	32		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	34		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.023		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.11		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0043	0.0033	mg/Kg	1	☼	8260B	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11) (Continued)

Lab Sample ID: 500-98751-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	490		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	40	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.88		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.028	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	62		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.42		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9500		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.84	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5) (Continued)

Lab Sample ID: 500-98751-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Beryllium	0.60		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.19		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.54	0.093	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.0		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	9.1		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	34000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	78000		110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	390		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.38	J	0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Silver	0.066	J	0.27	0.064	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.1		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1		☼	6010B	Total/NA
Zinc	42	B	1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	290		54	7.2	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.91		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	580		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.8	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.024	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	56		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.027	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	59		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.085		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	71		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.031		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.082		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.094		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.014	J	0.018	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0071		0.0041	0.0032	mg/Kg	1		☼	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	1		☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11) (Continued)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA	
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA	
Antimony	0.33	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	4.8		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA	
Barium	32		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.61		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.15		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA	
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	5.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA	
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA	
Lead	8.9		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA	
Calcium	77000		110	37	mg/Kg	10	☼	6010B	Total/NA	
Manganese	380		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	18		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.48	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Thallium	1.2		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA	
Zinc	42	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA	
Potassium	3000		28	4.6	mg/Kg	1	☼	6010B	Total/NA	
Sodium	240		57	7.5	mg/Kg	1	☼	6010B	Total/NA	
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP	
Arsenic	0.014	J	0.050	0.010	mg/L	1		6010B	TCLP	
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	580		2.5	0.50	mg/L	1		6010B	TCLP	
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP	
Magnesium	41		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.76		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	3.1	B	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.057	J	0.10	0.020	mg/L	1		6010B	TCLP	
Aluminum	45		0.20	0.20	mg/L	1		6010B	SPLP East	
Arsenic	0.030	J	0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	SPLP East	
Calcium	57		2.5	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.069		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.092		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	61		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.066		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	17		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.081		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.53		0.10	0.020	mg/L	1		6010B	SPLP East	
Mercury	0.029		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA	
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.033	J	0.038	0.0064	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.49		0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.78		0.038	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.0087	J	0.038	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.90		0.038	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	6.3		0.58	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.051	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.034	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	19		0.58	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.066	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	16		0.58	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	24000		5.8	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	44000		12	3.8	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	570		0.58	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	18		0.58	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.77		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	50	B	1.2	0.37	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	2200		58	7.7	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	0.98		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.3	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	97		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.042	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.32	J	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.032		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5) (Continued)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.068		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.91		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	9.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0056		0.0036	0.0028	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.051		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9400		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.53	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	540		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11) (Continued)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.7		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.4		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.3		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.28		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0061	mg/Kg	1	✳	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.081		0.036	0.0061	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.35		0.036	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.70		0.036	0.0068	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.013	J	0.036	0.0052	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.26		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.76		0.036	0.0073	mg/Kg	1	✳	8270D	Total/NA
Aluminum	4600		11	2.8	mg/Kg	1	✳	6010B	Total/NA
Arsenic	3.3		2.8	1.3	mg/Kg	5	✳	6010B	Total/NA
Barium	54		2.8	0.51	mg/Kg	5	✳	6010B	Total/NA
Beryllium	0.42	J	1.1	0.24	mg/Kg	5	✳	6010B	Total/NA
Cadmium	0.43	J B	0.56	0.16	mg/Kg	5	✳	6010B	Total/NA
Chromium	10		2.8	0.48	mg/Kg	5	✳	6010B	Total/NA
Cobalt	3.3		1.4	0.32	mg/Kg	5	✳	6010B	Total/NA
Copper	12		2.8	0.61	mg/Kg	5	✳	6010B	Total/NA
Iron	9300		56	22	mg/Kg	5	✳	6010B	Total/NA
Lead	16		1.4	0.70	mg/Kg	5	✳	6010B	Total/NA
Magnesium	62000		28	11	mg/Kg	5	✳	6010B	Total/NA
Calcium	160000		56	18	mg/Kg	5	✳	6010B	Total/NA
Manganese	470		2.8	0.55	mg/Kg	5	✳	6010B	Total/NA
Nickel	10		2.8	0.76	mg/Kg	5	✳	6010B	Total/NA
Vanadium	15		1.4	0.41	mg/Kg	5	✳	6010B	Total/NA
Zinc	37	B	5.6	1.8	mg/Kg	5	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5) (Continued)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	910		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.47		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	2.9		0.20	0.20	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.2		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.076	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.044		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.50		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000	B	12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.3		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11) (Continued)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	210		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.44	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.4		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.1		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	5.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.053	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.99		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.086		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.089		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	16000	B	12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.66	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5) (Continued)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	25000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	7900		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	7800		12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	600		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	1.6		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.6		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	32		0.30	0.087	mg/Kg	1		☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	2800		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	2100		59	7.8	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.7	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.085	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	12		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.019	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.14	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.021	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.036		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	7.7		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	6.8		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.068		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.012	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	6.1		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1		☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.018	J	0.036	0.0098	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	1		☼	8270D	Total/NA
Aluminum	9300		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.33	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.1		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	25		0.54	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11) (Continued)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.12	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	530		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	430	^	54	7.2	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	86		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.093	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	31		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.022	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.075		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	41		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.026		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018		0.016	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5) (Continued)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.033	J	0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.042		0.040	0.0081	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	13000		12	3.0	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.29	J	1.2	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	7.3		0.60	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.052	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.035	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	15		0.30	0.068	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	19		0.60	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	44		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	11000		6.0	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	17000		12	3.9	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	950		0.60	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	23		0.60	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.52	J	0.60	0.30	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	26		0.30	0.088	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1600		30	4.9	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	1600	^	60	7.9	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.30	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.040	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.055		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.73		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0080		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.67		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0032		0.0020	0.0020	mg/L	1			6020A	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5) (Continued)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.055		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	590	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.048	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	91		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0057		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	81		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.055		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.011	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.058		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.066		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	14000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	^	60	8.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	100		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.083		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5) (Continued)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.051		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0092		0.0042	0.0032	mg/Kg	1	☼	8260B	Total/NA
Aluminum	10000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	820	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	98		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	67		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.077		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11) (Continued)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.45		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0045		0.0044	0.0034	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9800		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	470	^	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	16		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.093	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0087		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11) (Continued)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.051	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	^	59	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	95		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.054		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5) (Continued)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.067		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.48		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.018	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	9.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9100		11	2.8	mg/Kg	1	✳	6010B	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.5		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Barium	30		0.56	0.10	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.56	0.097	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.28	0.064	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.56	0.12	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	4.3	mg/Kg	1	✳	6010B	Total/NA
Lead	9.6		0.28	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	✳	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10	✳	6010B	Total/NA
Manganese	390		0.56	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.38	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.28	0.082	mg/Kg	1	✳	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		28	4.6	mg/Kg	1	✳	6010B	Total/NA
Sodium	180	^	56	7.4	mg/Kg	1	✳	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11) (Continued)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.081	J	0.10	0.020	mg/L	1		6010B	SPLP East
pH	8.15		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0045	0.0035	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.037	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.058		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700	^	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.5		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5) (Continued)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	8.1		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	6.4		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.042		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0055	0.0042	mg/Kg	1	☼	8260B	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.95		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	970	^	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	46		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11) (Continued)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.83		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0098		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0051		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	48		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.71		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.048		0.018	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	7.58		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0050	0.0013	mg/L	1		8260B	Total/NA
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L	1		8270D	Total/NA
Chrysene	0.0016		0.00037	0.000050	mg/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L	1		8270D	Total/NA
Fluoranthene	0.0022		0.00074	0.00033	mg/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L	1		8270D	Total/NA
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L	1		8270D	Total/NA
Pyrene	0.0018		0.00074	0.00031	mg/L	1		8270D	Total/NA
Aluminum	140		0.50	0.27	mg/L	5		6020A	Total Recoverable
Arsenic	0.23		0.0050	0.0022	mg/L	5		6020A	Total Recoverable
Barium	1.1		0.013	0.0042	mg/L	5		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01 (Continued)

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.012		0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Cadmium	0.0073		0.0025	0.00095	mg/L	5		6020A	Total Recoverable
Calcium	840	B	1.0	0.53	mg/L	5		6020A	Total Recoverable
Chromium	0.11		0.025	0.0030	mg/L	5		6020A	Total Recoverable
Cobalt	0.15		0.0050	0.00095	mg/L	5		6020A	Total Recoverable
Copper	0.83		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	140		0.50	0.13	mg/L	5		6020A	Total Recoverable
Lead	0.62		0.0025	0.00071	mg/L	5		6020A	Total Recoverable
Magnesium	380		2.0	0.83	mg/L	10		6020A	Total Recoverable
Manganese	1.9		0.013	0.0050	mg/L	5		6020A	Total Recoverable
Nickel	0.45		0.010	0.0026	mg/L	5		6020A	Total Recoverable
Potassium	28		2.5	0.95	mg/L	5		6020A	Total Recoverable
Selenium	0.017		0.013	0.0042	mg/L	5		6020A	Total Recoverable
Silver	0.0020		0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	95		0.20	0.088	mg/L	1		6020A	Total Recoverable
Thallium	0.017		0.010	0.0030	mg/L	5		6020A	Total Recoverable
Vanadium	0.25		0.025	0.011	mg/L	5		6020A	Total Recoverable
Zinc	2.4	B	0.10	0.023	mg/L	5		6020A	Total Recoverable

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98751-1	2682-2-B02 (0-2)	Solid	07/17/15 09:55	07/18/15 08:00
500-98751-2	2682-2-B02 DUP (0-2)	Solid	07/17/15 10:05	07/18/15 08:00
500-98751-3	2682-4-B01 (0-5)	Solid	07/17/15 08:45	07/18/15 08:00
500-98751-4	2682-4-B01 (5-11)	Solid	07/17/15 09:00	07/18/15 08:00
500-98751-5	2682-4-B02 (0-5)	Solid	07/17/15 09:15	07/18/15 08:00
500-98751-6	2682-4-B02 (5-11)	Solid	07/17/15 09:25	07/18/15 08:00
500-98751-7	2682-4-B03 (0-5)	Solid	07/17/15 10:30	07/18/15 08:00
500-98751-8	2682-4-B03 (5-11)	Solid	07/17/15 10:40	07/18/15 08:00
500-98751-9	2682-4-B05 (0-5)	Solid	07/17/15 11:05	07/18/15 08:00
500-98751-10	2682-4-B05 (5-11)	Solid	07/17/15 11:15	07/18/15 08:00
500-98751-11	2682-4-B07 (0-5)	Solid	07/17/15 11:45	07/18/15 08:00
500-98751-12	2682-4-B07 (5-11)	Solid	07/17/15 11:55	07/18/15 08:00
500-98751-13	2682-4-B09 (0-5)	Solid	07/17/15 12:20	07/18/15 08:00
500-98751-14	2682-4-B09 (5-11)	Solid	07/17/15 12:30	07/18/15 08:00
500-98751-15	2682-4-B11 (0-5)	Solid	07/17/15 12:55	07/18/15 08:00
500-98751-16	2682-4-B11 (5-11)	Solid	07/17/15 13:15	07/18/15 08:00
500-98751-17	2682-4-B11 DUP (5-11)	Solid	07/17/15 13:25	07/18/15 08:00
500-98751-18	2682-4-B13 (0-5)	Solid	07/17/15 14:00	07/18/15 08:00
500-98751-19	2682-4-B13 (5-11)	Solid	07/17/15 14:10	07/18/15 08:00
500-98751-20	2682-4-B15 (0-5)	Solid	07/17/15 14:35	07/18/15 08:00
500-98751-21	2682-4-B15 (5-11)	Solid	07/17/15 14:45	07/18/15 08:00
500-98751-22	2682-4-G01	Water	07/17/15 15:20	07/18/15 08:00
500-98751-23	TRIP BLANK	Water	07/17/15 00:00	07/18/15 08:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.23		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Barium	0.25	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:57	1
Calcium	63		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 16:57	1
Magnesium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Manganese	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Potassium	0.72	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Zinc	0.027	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:47	1
Calcium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Chromium	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Copper	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Iron	18		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:47	1
Magnesium	7.6	F1	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Manganese	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Nickel	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Potassium	4.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Vanadium	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Zinc	0.068	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:47	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		07/26/15 17:40	07/27/15 19:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 14:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.67		0.200	0.200	SU	-		07/23/15 10:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0040	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/22/15 17:54	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/22/15 17:54	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041	F1	0.041	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Acenaphthylene	<0.041	F1	0.041	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-chloroethoxy)methane	<0.21	F1 F2	0.21	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-chloroethyl)ether	<0.21	F2	0.21	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chloro-3-methylphenol	<0.41	F1 F2	0.41	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Chloronaphthalene	<0.21	F1 F2	0.21	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Chlorophenol	<0.21	F1 F2	0.21	0.071	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,2-Dichlorobenzene	<0.21	F1 F2	0.21	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,3-Dichlorobenzene	<0.21	F1	0.21	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,4-Dichlorobenzene	<0.21	F1 F2	0.21	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dichlorophenol	<0.41	F1	0.41	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dimethylphenol	<0.41	F1	0.41	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dimethyl phthalate	<0.21	F1	0.21	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4,6-Dinitro-2-methylphenol	<0.41	F1	0.41	0.33	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dinitrophenol	<0.83	F1	0.83	0.73	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorocyclopentadiene	<0.83	F1	0.83	0.24	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachloroethane	<0.21	F1	0.21	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Methylnaphthalene	<0.041	F1 F2	0.041	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Methylphenol	<0.21	F1	0.21	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Naphthalene	<0.041	F1	0.041	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Nitrophenol	<0.41	F1	0.41	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
N-Nitrosodi-n-propylamine	<0.21	F2	0.21	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,2'-oxybis[1-chloropropane]	<0.21	F2	0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Pentachlorophenol	<0.83	F1	0.83	0.66	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Phenol	<0.21	F1 F2	0.21	0.092	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,2,4-Trichlorobenzene	<0.21	F1	0.21	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/28/15 11:23	1
2-Fluorophenol	49		25 - 110	07/23/15 07:27	07/28/15 11:23	1
Nitrobenzene-d5	44		25 - 115	07/23/15 07:27	07/28/15 11:23	1
Phenol-d5	47		31 - 110	07/23/15 07:27	07/28/15 11:23	1
Terphenyl-d14	73		36 - 134	07/23/15 07:27	07/28/15 11:23	1
2,4,6-Tribromophenol	28	X	35 - 137	07/23/15 07:27	07/28/15 11:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Antimony	0.41	J F1	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Arsenic	13	F1	0.59	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Barium	120		0.59	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Beryllium	1.0		0.24	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Cadmium	0.18	F1	0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Chromium	20	F1	0.59	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Cobalt	12	F1	0.29	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Copper	25	F1	0.59	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Iron	28000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Lead	15	F1	0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Magnesium	3600		5.9	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Calcium	3800		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Manganese	530	F2	0.59	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Nickel	26		0.59	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Selenium	0.96	F1	0.59	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 00:37	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Thallium	1.4		0.59	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Vanadium	29	F1	0.29	0.086	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Zinc	58	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Potassium	1300	F1	29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Sodium	240		59	7.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.020	0.0069	mg/Kg	☼	07/23/15 16:00	07/27/15 16:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	07/23/15 16:00	07/23/15 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:02	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:02	1
Calcium	60		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:02	1
Magnesium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Manganese	0.033		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Potassium	0.90	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:14	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:14	1
Calcium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Chromium	0.031		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Copper	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Iron	19		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:14	1
Magnesium	7.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Manganese	0.098		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Nickel	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Potassium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:14	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Vanadium	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Zinc	0.078	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:14	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		07/26/15 17:40	07/27/15 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.00		0.200	0.200	SU	-		07/23/15 10:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/22/15 18:18	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 18:18	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/23/15 07:27	07/28/15 11:49	1
2-Fluorophenol	58		25 - 110	07/23/15 07:27	07/28/15 11:49	1
Nitrobenzene-d5	54		25 - 115	07/23/15 07:27	07/28/15 11:49	1
Phenol-d5	57		31 - 110	07/23/15 07:27	07/28/15 11:49	1
Terphenyl-d14	86		36 - 134	07/23/15 07:27	07/28/15 11:49	1
2,4,6-Tribromophenol	32	X	35 - 137	07/23/15 07:27	07/28/15 11:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19000		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Antimony	0.60	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Arsenic	7.6		0.57	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Barium	130		0.57	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Beryllium	1.1		0.23	0.050	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Cadmium	0.10	J	0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Chromium	26		0.57	0.098	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Cobalt	11		0.29	0.065	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Copper	24		0.57	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Iron	28000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Lead	15		0.29	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Magnesium	4500		5.7	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Calcium	3500		11	3.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Manganese	710		0.57	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Nickel	25		0.57	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Selenium	0.45	J	0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:07	1
Silver	0.096	J	0.29	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Thallium	2.0		0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Vanadium	33		0.29	0.084	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Zinc	53	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Potassium	1500		29	4.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Sodium	260		57	7.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 10:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Calcium	400		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:07	1
Magnesium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Manganese	2.3		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Nickel	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Potassium	2.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Zinc	0.030	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Arsenic	0.013	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Chromium	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Copper	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Iron	34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Lead	0.023		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:21	1
Magnesium	13		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Manganese	0.36		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Nickel	0.045		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Potassium	11		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Vanadium	0.056		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Zinc	0.11		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	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		07/26/15 17:40	07/27/15 19:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromomethane	<0.0042 *		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/22/15 18:43	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/18/15 09:50	07/22/15 18:43	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/22/15 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/28/15 12:14	1
2-Fluorophenol	50		25 - 110	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene-d5	45		25 - 115	07/23/15 07:27	07/28/15 12:14	1
Phenol-d5	48		31 - 110	07/23/15 07:27	07/28/15 12:14	1
Terphenyl-d14	66		36 - 134	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Tribromophenol	16	X	35 - 137	07/23/15 07:27	07/28/15 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Antimony	0.55	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Arsenic	7.1		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Barium	46		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Beryllium	0.71		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Chromium	18		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Iron	20000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Lead	14		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Calcium	50000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Manganese	590		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Selenium	0.47	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Vanadium	23		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Zinc	46	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Potassium	2600		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Sodium	400		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Date Collected: 07/17/15 08:45

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-3

Matrix: Solid

Percent Solids: 82.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.88		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Calcium	590		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:36	1
Magnesium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Manganese	0.77		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Zinc	0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Arsenic	0.028	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Chromium	0.067		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Copper	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Iron	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Lead	0.030		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:28	1
Magnesium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Manganese	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Nickel	0.073		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Vanadium	0.076		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Zinc	0.42		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	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		07/26/15 17:40	07/27/15 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromomethane	<0.0043 *		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:07	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 19:07	1
Toluene-d8 (Surr)	98		75 - 122	07/18/15 09:50	07/22/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	07/23/15 07:27	07/28/15 12:41	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene-d5	47		25 - 115	07/23/15 07:27	07/28/15 12:41	1
Phenol-d5	50		31 - 110	07/23/15 07:27	07/28/15 12:41	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 07:27	07/28/15 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Antimony	0.35	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Barium	34		0.56	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Chromium	17		0.56	0.097	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Copper	20		0.56	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Lead	9.4		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Magnesium	32000		5.6	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Calcium	77000		110	36	mg/Kg	☼	07/21/15 18:01	07/25/15 01:22	10
Manganese	490		0.56	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Nickel	24		0.56	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Selenium	0.49	J	0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Thallium	1.3		0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Zinc	40	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Potassium	3100		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Sodium	210		56	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:41	1
Magnesium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Manganese	0.37		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Potassium	2.8	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Zinc	0.024	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	56		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Arsenic	0.027	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Barium	0.28	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Calcium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Chromium	0.085		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Copper	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Iron	71		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Lead	0.031		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:34	1
Magnesium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Manganese	0.35		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Nickel	0.082		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Potassium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Vanadium	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	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		07/26/15 17:40	07/27/15 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU	-		07/23/15 11:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/22/15 19:31	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:31	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	07/23/15 07:27	07/28/15 13:07	1
2-Fluorophenol	55		25 - 110	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene-d5	54		25 - 115	07/23/15 07:27	07/28/15 13:07	1
Phenol-d5	47		31 - 110	07/23/15 07:27	07/28/15 13:07	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Tribromophenol	23	X	35 - 137	07/23/15 07:27	07/28/15 13:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	2.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Antimony	0.84	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Arsenic	3.9		0.54	0.25	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Barium	26		0.54	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cadmium	0.19		0.11	0.031	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Chromium	17		0.54	0.093	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cobalt	6.0		0.27	0.061	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Copper	20		0.54	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Iron	16000		11	4.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Lead	9.1		0.27	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Magnesium	34000		5.4	2.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Calcium	78000		110	35	mg/Kg	☼	07/21/15 18:01	07/25/15 01:31	10
Manganese	390		0.54	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Nickel	19		0.54	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Selenium	0.38	J	0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/25/15 01:26	1
Silver	0.066	J	0.27	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Thallium	1.1		0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Vanadium	20		0.27	0.079	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Zinc	42	B	1.1	0.34	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Potassium	3100		27	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Sodium	290		54	7.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 10:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Arsenic	0.014	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:46	1
Magnesium	41		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Manganese	0.76		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Potassium	3.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Zinc	0.057	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	45		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.22	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	57		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	0.069		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	0.092		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	61		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	0.029		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	0.066		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	0.081		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.53		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	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		07/26/15 17:40	07/27/15 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		07/23/15 11:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0071		0.0041	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:55	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/22/15 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/23/15 07:27	07/28/15 13:33	1
2-Fluorophenol	57		25 - 110	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene-d5	55		25 - 115	07/23/15 07:27	07/28/15 13:33	1
Phenol-d5	57		31 - 110	07/23/15 07:27	07/28/15 13:33	1
Terphenyl-d14	82		36 - 134	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Tribromophenol	34	X	35 - 137	07/23/15 07:27	07/28/15 13:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Arsenic	4.8		0.57	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Barium	32		0.57	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Chromium	17		0.57	0.098	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cobalt	5.0		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Copper	18		0.57	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Lead	8.9		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Calcium	77000		110	37	mg/Kg	☼	07/21/15 18:01	07/25/15 01:41	10
Manganese	380		0.57	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Nickel	18		0.57	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Selenium	0.48	J	0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:35	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Thallium	1.2		0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Vanadium	19		0.28	0.083	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Zinc	42	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Potassium	3000		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Sodium	240		57	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Copper	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:51	1
Magnesium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Manganese	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Potassium	4.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Arsenic	0.042	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:04	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Calcium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cobalt	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Iron	110		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Lead	0.068		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:04	1
Magnesium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Manganese	0.91		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Potassium	22		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Zinc	0.34		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	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		07/26/15 17:40	07/27/15 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.39		0.200	0.200	SU	-		07/23/15 11:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0039	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 20:19	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 20:19	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Anthracene	0.033	J	0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Chrysene	0.49		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluoranthene	0.78		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluorene	0.0087 J		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenanthrene	0.24		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pyrene	0.90		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	07/23/15 07:27	07/28/15 16:43	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene-d5	48		25 - 115	07/23/15 07:27	07/28/15 16:43	1
Phenol-d5	51		31 - 110	07/23/15 07:27	07/28/15 16:43	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 07:27	07/28/15 16:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Arsenic	6.3		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Barium	49		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Beryllium	0.61		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cadmium	0.20		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Chromium	19		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cobalt	8.2		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Copper	16		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Iron	18000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Lead	15		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Magnesium	24000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Calcium	44000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Manganese	570		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Nickel	18		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Selenium	0.77		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:45	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Zinc	50	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Potassium	2000		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Sodium	2200		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Date Collected: 07/17/15 10:30

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-7

Matrix: Solid

Percent Solids: 83.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Barium	0.42	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Calcium	600		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Copper	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:57	1
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Zinc	0.036	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Calcium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Copper	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Iron	2.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:10	1
Magnesium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Manganese	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Potassium	3.3		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Zinc	0.28		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	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		07/26/15 17:40	07/27/15 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.08		0.200	0.200	SU	-		07/23/15 11:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Benzene	<0.0036		0.0036	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromodichloromethane	<0.0036		0.0036	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromoform	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromomethane	<0.0036 *		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon tetrachloride	<0.0036		0.0036	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chlorobenzene	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroform	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloromethane	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Dibromochloromethane	<0.0036		0.0036	0.00042	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethane	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloropropane	<0.0036		0.0036	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Ethylbenzene	<0.0036		0.0036	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methylene Chloride	<0.0036		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Styrene	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1,2-Tetrachloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Tetrachloroethene	<0.0036 *		0.0036	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Toluene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Trichloroethene	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl acetate	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl chloride	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Xylenes, Total	<0.0073		0.0073	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 13:48	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 13:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Chrysene	0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluoranthene	0.050		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pyrene	0.051		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	07/23/15 07:27	07/28/15 13:59	1
2-Fluorophenol	56		25 - 110	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene-d5	50		25 - 115	07/23/15 07:27	07/28/15 13:59	1
Phenol-d5	46		31 - 110	07/23/15 07:27	07/28/15 13:59	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Tribromophenol	24	X	35 - 137	07/23/15 07:27	07/28/15 13:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		12	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Antimony	0.53	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Arsenic	7.4		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Barium	35		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cadmium	0.18		0.12	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cobalt	12		0.29	0.065	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Iron	19000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Lead	12		0.29	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Magnesium	30000		5.8	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Calcium	69000		120	37	mg/Kg	☼	07/21/15 18:01	07/25/15 02:02	10
Manganese	540		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Selenium	0.46	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:50	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Vanadium	21		0.29	0.084	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Zinc	41	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Potassium	2700		29	4.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Sodium	1900		58	7.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.47		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Barium	0.23	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:02	1
Magnesium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Barium	<0.50		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Calcium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Copper	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Iron	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:17	1
Magnesium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Manganese	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Zinc	0.076	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	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		07/26/15 17:40	07/27/15 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.50		0.200	0.200	SU	-		07/23/15 11:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/18/15 09:50	07/23/15 14:12	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 14:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Anthracene	0.081		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Chrysene	0.35		0.036	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.30	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluoranthene	0.70		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluorene	0.013 J		0.036	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylnaphthalene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenanthrene	0.26		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pyrene	0.76		0.036	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/29/15 14:02	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene-d5	41		25 - 115	07/23/15 07:27	07/29/15 14:02	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:02	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/29/15 14:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Antimony	<5.6		5.6	1.2	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Arsenic	3.3		2.8	1.3	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Barium	54		2.8	0.51	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Beryllium	0.42	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cadmium	0.43	J B	0.56	0.16	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Chromium	10		2.8	0.48	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cobalt	3.3		1.4	0.32	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Copper	12		2.8	0.61	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Iron	9300		56	22	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Lead	16		1.4	0.70	mg/Kg	☼	07/21/15 18:01	07/26/15 18:07	5
Magnesium	62000		28	11	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Calcium	160000		56	18	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Manganese	470		2.8	0.55	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Nickel	10		2.8	0.76	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Selenium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Silver	<1.4		1.4	0.33	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Vanadium	15		1.4	0.41	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Zinc	37	B	5.6	1.8	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Potassium	910		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Sodium	1500		56	7.4	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Calcium	1000		25	5.0	mg/L		07/26/15 17:40	07/28/15 15:33	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cobalt	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:07	1
Magnesium	210		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Manganese	3.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Nickel	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Potassium	2.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Zinc	0.44	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Iron	2.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:24	1
Magnesium	5.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Manganese	0.064		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Potassium	3.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Zinc	0.053	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	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		07/26/15 17:40	07/27/15 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU	-		07/23/15 11:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Tetrachloroethene	<0.0038	*	0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 14:36	1
Dibromofluoromethane	102		75 - 120	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/18/15 09:50	07/23/15 14:36	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluoranthene	0.047		0.037	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pyrene	0.044		0.037	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	07/23/15 07:27	07/28/15 14:26	1
2-Fluorophenol	65		25 - 110	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene-d5	61		25 - 115	07/23/15 07:27	07/28/15 14:26	1
Phenol-d5	63		31 - 110	07/23/15 07:27	07/28/15 14:26	1
Terphenyl-d14	100		36 - 134	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Tribromophenol	26	X	35 - 137	07/23/15 07:27	07/28/15 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	2.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Antimony	0.28	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Arsenic	5.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Barium	40		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cadmium	0.10	J	0.12	0.033	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Chromium	18		0.58	0.099	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cobalt	8.2		0.29	0.065	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Lead	9.3		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Magnesium	33000		5.8	2.3	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Calcium	85000		120	37	mg/Kg	☼	07/22/15 10:00	07/26/15 19:54	10
Manganese	460		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Selenium	0.76		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Vanadium	22		0.29	0.084	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Zinc	41		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Potassium	3800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Sodium	1400		58	7.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Iron	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:12	1
Magnesium	98		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Potassium	4.7	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Zinc	0.085	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Arsenic	0.019	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Barium	0.14	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Calcium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Chromium	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Copper	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Iron	7.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Lead	0.017		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:31	1
Magnesium	6.8		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Manganese	0.068		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Nickel	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Potassium	6.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Vanadium	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	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		07/26/15 17:40	07/27/15 19:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU	-		07/23/15 11:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:00	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 15:00	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/23/15 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Chrysene	0.056		0.039	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluoranthene	0.086		0.039	0.0074	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenanthrene	0.044		0.039	0.0055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pyrene	0.089		0.039	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/23/15 07:27	07/29/15 14:27	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene-d5	43		25 - 115	07/23/15 07:27	07/29/15 14:27	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:27	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 07:27	07/29/15 14:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000	B	12	2.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Antimony	0.66	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Arsenic	8.8		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Barium	69		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Beryllium	0.91		0.24	0.051	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Chromium	24		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cobalt	13		0.30	0.067	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Iron	25000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Lead	18		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Magnesium	7900		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Calcium	7800		12	3.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Manganese	600		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Nickel	26		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Selenium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Thallium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Vanadium	32		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Zinc	55		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Potassium	2800		30	4.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Sodium	2100		59	7.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0069	mg/Kg	☼	07/23/15 16:00	07/27/15 11:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Barium	0.29	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:18	1
Magnesium	86		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Nickel	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Zinc	0.093	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Arsenic	0.022	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Barium	0.16	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Calcium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Chromium	0.048		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cobalt	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Copper	0.075		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Iron	41		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Lead	0.026		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:37	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Manganese	0.19		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Nickel	0.050		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Potassium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Vanadium	0.055		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	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		07/26/15 17:40	07/27/15 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/27/15 15:15	07/28/15 13:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/27/15 15:15	07/28/15 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			07/23/15 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromomethane	<0.0047	*	0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Tetrachloroethene	<0.0047	*	0.0047	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 15:24	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/18/15 09:50	07/23/15 15:24	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Chrysene	0.018	J	0.036	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	07/23/15 07:27	07/28/15 15:20	1
2-Fluorophenol	69		25 - 110	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene-d5	63		25 - 115	07/23/15 07:27	07/28/15 15:20	1
Phenol-d5	64		31 - 110	07/23/15 07:27	07/28/15 15:20	1
Terphenyl-d14	103		36 - 134	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 07:27	07/28/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.7	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Antimony	0.33	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Arsenic	6.1		0.54	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Barium	25		0.54	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Beryllium	0.61		0.22	0.047	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cadmium	0.12	B	0.11	0.032	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Chromium	13		0.54	0.094	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cobalt	11		0.27	0.062	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Copper	23		0.54	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Iron	16000		11	4.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Lead	14		0.27	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Magnesium	29000		5.4	2.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Calcium	97000		110	35	mg/Kg	☼	07/22/15 10:00	07/26/15 20:03	10
Manganese	530		0.54	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Nickel	31		0.54	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Vanadium	15		0.27	0.080	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Zinc	71		1.1	0.34	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Potassium	2400		27	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Sodium	430	^	54	7.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0057	mg/Kg	☼	07/23/15 16:00	07/27/15 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:23	1
Magnesium	110		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Manganese	1.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Potassium	1.9	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Zinc	0.040	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Barium	0.73		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:44	1
Beryllium	0.0080		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Chromium	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cobalt	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Copper	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Iron	190		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Lead	0.13		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:44	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Zinc	0.67		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	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		07/26/15 17:40	07/27/15 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0032		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU	-		07/23/15 12:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Tetrachloroethene	<0.0043	*	0.0043	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:48	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/23/15 15:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Chrysene	0.033	J	0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pyrene	0.042		0.040	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/23/15 07:27	07/28/15 15:48	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene-d5	59		25 - 115	07/23/15 07:27	07/28/15 15:48	1
Phenol-d5	66		31 - 110	07/23/15 07:27	07/28/15 15:48	1
Terphenyl-d14	93		36 - 134	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Tribromophenol	31	X	35 - 137	07/23/15 07:27	07/28/15 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Antimony	0.29	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Arsenic	7.3		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Barium	87		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Beryllium	0.72		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cadmium	0.12	B	0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cobalt	15		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Copper	19		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Iron	20000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Lead	44		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Magnesium	11000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Calcium	17000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Manganese	950		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Nickel	23		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Selenium	0.52	J	0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Vanadium	26		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Potassium	1600		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Sodium	1600	^	60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.019	0.0067	mg/Kg	☼	07/23/15 16:00	07/27/15 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Barium	0.35	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Calcium	440		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:36	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Zinc	0.048	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:51	1
Beryllium	0.0057		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Calcium	81		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Chromium	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cobalt	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Copper	0.20		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Lead	0.055		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:51	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Manganese	0.92		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Zinc	0.50		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	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		07/26/15 17:40	07/27/15 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU	-		07/23/15 12:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Tetrachloroethene	<0.0043	*	0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:12	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 16:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	07/23/15 07:27	07/28/15 16:15	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene-d5	58		25 - 115	07/23/15 07:27	07/28/15 16:15	1
Phenol-d5	54		31 - 110	07/23/15 07:27	07/28/15 16:15	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/28/15 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Arsenic	4.4		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Beryllium	0.69		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Chromium	15		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cobalt	9.0		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Iron	17000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Lead	10		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Magnesium	29000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Calcium	90000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:17	10
Manganese	430		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Nickel	27		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Vanadium	18		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Zinc	52		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Potassium	2700		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Sodium	590	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Barium	0.31	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:41	1
Magnesium	96		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Manganese	0.83		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:58	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Calcium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cobalt	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Lead	0.083		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:58	1
Magnesium	21		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Potassium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Zinc	0.61		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU	-		07/23/15 12:17	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Tetrachloroethene	<0.0038	*	0.0038	0.00080	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:37	1
Dibromofluoromethane	98		75 - 120	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/23/15 16:37	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Chrysene	0.049		0.040	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluoranthene	0.058		0.040	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pyrene	0.066		0.040	0.0079	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/23/15 16:46	07/29/15 14:54	1
2-Fluorophenol	43		25 - 110	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/29/15 14:54	1
Phenol-d5	47		31 - 110	07/23/15 16:46	07/29/15 14:54	1
Terphenyl-d14	91		36 - 134	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Tribromophenol	21	X	35 - 137	07/23/15 16:46	07/29/15 14:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Antimony	0.39	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Arsenic	7.7		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Barium	64		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Beryllium	0.85		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cobalt	12		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Copper	26		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Iron	22000		12	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Lead	51		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Magnesium	15000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Calcium	23000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Manganese	500		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Nickel	31		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Selenium	0.63		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Vanadium	24		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Potassium	2000		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Sodium	1300	A	60	8.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0068	mg/Kg	☼	07/23/15 16:00	07/27/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Calcium	510		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:46	1
Magnesium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Nickel	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Potassium	4.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Zinc	0.049	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:20	1
Beryllium	0.0062		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Calcium	67		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Chromium	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cobalt	0.049		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Iron	150		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Lead	0.077		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:20	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Nickel	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Potassium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Zinc	0.45		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0029		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	-		07/23/15 12:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Tetrachloroethene	<0.0042	*	0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 17:01	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 17:01	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/23/15 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		25 - 119	07/23/15 16:46	07/28/15 18:05	1
2-Fluorophenol	48		25 - 110	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 18:05	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/28/15 18:05	1
Terphenyl-d14	105		36 - 134	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 16:46	07/28/15 18:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Antimony	0.28	J	1.1	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Arsenic	5.7		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Chromium	14		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Iron	18000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Lead	11		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Magnesium	32000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Calcium	97000		110	37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:38	10
Manganese	500		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Nickel	28		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Selenium	0.52	J	0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Vanadium	17		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Zinc	50		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Potassium	2300		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Sodium	820	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0059	mg/Kg	☼	07/23/15 16:00	07/27/15 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Barium	0.34	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Calcium	380		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:52	1
Magnesium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Manganese	1.5		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Nickel	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Potassium	4.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Zinc	0.035	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Barium	0.093	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Calcium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Chromium	0.023	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Iron	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Lead	0.0087		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:27	1
Magnesium	12		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Manganese	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Nickel	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Potassium	7.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Vanadium	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Zinc	0.051	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU	-		07/23/15 12:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0044	0.0034	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromomethane	<0.0044 *		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Tetrachloroethene	<0.0044 *		0.0044	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/18/15 09:50	07/23/15 20:16	1
Dibromofluoromethane	108		75 - 120	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/23/15 20:16	1
Toluene-d8 (Surr)	92		75 - 122	07/18/15 09:50	07/23/15 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Chrysene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pyrene	0.014	J	0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/23/15 16:46	07/29/15 15:20	1
2-Fluorophenol	61		25 - 110	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene-d5	54		25 - 115	07/23/15 16:46	07/29/15 15:20	1
Phenol-d5	57		31 - 110	07/23/15 16:46	07/29/15 15:20	1
Terphenyl-d14	124		36 - 134	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 16:46	07/29/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Arsenic	5.3		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Barium	33		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Chromium	14		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cobalt	11		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Copper	22		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Iron	17000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Lead	12		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Calcium	90000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:47	10
Manganese	480		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Nickel	28		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Vanadium	17		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Zinc	57		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Sodium	470	^	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	50		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.52		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	2.1	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.16		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Arsenic	0.054		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:34	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Calcium	43		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cobalt	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Lead	0.067		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:34	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Manganese	0.67		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Zinc	0.48		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0028		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.24		0.200	0.200	SU	-		07/23/15 12:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0031	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromoform	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromomethane	<0.0039	*	0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Tetrachloroethene	<0.0039	*	0.0039	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 21:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/18/15 09:50	07/23/15 21:55	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pyrene	0.033	J	0.038	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/23/15 16:46	07/29/15 15:47	1
2-Fluorophenol	45		25 - 110	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene-d5	40		25 - 115	07/23/15 16:46	07/29/15 15:47	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/29/15 15:47	1
Terphenyl-d14	118		36 - 134	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Tribromophenol	43		35 - 137	07/23/15 16:46	07/29/15 15:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Arsenic	6.2		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Barium	37		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Beryllium	0.69		0.23	0.051	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Chromium	14		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Lead	13		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Magnesium	31000		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Calcium	110000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:56	10
Manganese	520		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Nickel	31		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Selenium	0.36	J	0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Vanadium	18		0.29	0.086	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Zinc	50		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Sodium	1200	^	59	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cobalt	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:02	1
Magnesium	68		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Nickel	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Potassium	3.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Zinc	0.032	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Arsenic	0.010	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Barium	0.13	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Calcium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Chromium	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Copper	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Iron	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Lead	0.014		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:41	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Manganese	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Nickel	0.039		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Potassium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Vanadium	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Zinc	0.081	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	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		07/26/15 17:40	07/27/15 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU	-		07/23/15 12:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Tetrachloroethene	<0.0042	*	0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 21:07	1
Dibromofluoromethane	109		75 - 120	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 21:07	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dimethylphenol	<0.37	F1	0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4,6-Dinitro-2-methylphenol	<0.37	F1	0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:28	1
2-Fluorophenol	38		25 - 110	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene-d5	37		25 - 115	07/23/15 16:46	07/28/15 19:28	1
Phenol-d5	35		31 - 110	07/23/15 16:46	07/28/15 19:28	1
Terphenyl-d14	71		36 - 134	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 16:46	07/28/15 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Antimony	0.41	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Barium	30		0.56	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Chromium	13		0.56	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cobalt	16		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Copper	18		0.56	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Iron	15000		11	4.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Lead	9.6		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Calcium	100000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:05	10
Manganese	390		0.56	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Nickel	29		0.56	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Selenium	0.38	J	0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Vanadium	16		0.28	0.082	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Zinc	42		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Potassium	2100		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Sodium	180	^	56	7.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Barium	0.52		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Calcium	200		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cobalt	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:07	1
Magnesium	100		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Manganese	13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Nickel	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Potassium	5.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Zinc	0.083	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Barium	0.10	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Calcium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Chromium	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Iron	6.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Lead	0.010		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:47	1
Magnesium	4.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Potassium	4.7		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Vanadium	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Zinc	0.29		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	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		07/26/15 17:40	07/27/15 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	-		07/23/15 12:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0045	0.0035	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/18/15 09:50	07/24/15 18:42	1
Dibromofluoromethane	107		75 - 120	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	07/18/15 09:50	07/24/15 18:42	1
Toluene-d8 (Surr)	116		75 - 122	07/18/15 09:50	07/24/15 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Chrysene	0.037	J	0.039	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluoranthene	0.047		0.039	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pyrene	0.058		0.039	0.0078	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	07/23/15 16:46	07/29/15 16:13	1
2-Fluorophenol	56		25 - 110	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene-d5	53		25 - 115	07/23/15 16:46	07/29/15 16:13	1
Phenol-d5	58		31 - 110	07/23/15 16:46	07/29/15 16:13	1
Terphenyl-d14	114		36 - 134	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 16:46	07/29/15 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Barium	53		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Beryllium	0.82		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Chromium	17		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Iron	21000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Lead	20		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Magnesium	9000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Calcium	12000		12	3.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Manganese	340		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Selenium	0.71		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Zinc	72		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Potassium	1800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Sodium	2700	^	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Calcium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cobalt	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:17	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Manganese	5.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Nickel	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Barium	0.83		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:27	1
Beryllium	0.0098		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cadmium	0.0051		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Calcium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cobalt	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Iron	240		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Lead	0.14		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:16	5
Magnesium	48		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Manganese	2.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Nickel	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Potassium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Zinc	0.71		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	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		07/26/15 17:40	07/27/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0048		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU	-		07/23/15 12:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0055	0.0042	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/18/15 09:50	07/24/15 19:06	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/24/15 19:06	1
Toluene-d8 (Surr)	115		75 - 122	07/18/15 09:50	07/24/15 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:56	1
2-Fluorophenol	46		25 - 110	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 19:56	1
Phenol-d5	44		31 - 110	07/23/15 16:46	07/28/15 19:56	1
Terphenyl-d14	99		36 - 134	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Tribromophenol	25	X	35 - 137	07/23/15 16:46	07/28/15 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Antimony	<1.2		1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Arsenic	9.6		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Barium	67		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Beryllium	0.95		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Chromium	22		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cobalt	13		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Copper	23		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Iron	28000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Lead	17		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Magnesium	4800		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Calcium	2200		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Manganese	470		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Nickel	41		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Selenium	0.45	J	0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Thallium	0.29	J	0.60	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Vanadium	29		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Zinc	80		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Potassium	2500		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Sodium	970	^	60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0063	mg/Kg	☼	07/23/15 16:00	07/24/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0050	0.0013	mg/L			07/21/15 16:01	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 16:01	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 16:01	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 16:01	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 16:01	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 16:01	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 16:01	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 16:01	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 16:01	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 16:01	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 16:01	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 16:01	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 16:01	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 16:01	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 16:01	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 16:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 16:01	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 16:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 16:01	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 16:01	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 16:01	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 16:01	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 16:01	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		07/21/15 16:01	1
Dibromofluoromethane	93		75 - 120		07/21/15 16:01	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		07/21/15 16:01	1
Toluene-d8 (Surr)	98		75 - 120		07/21/15 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Acenaphthylene	<0.00074		0.00074	0.00020	mg/L		07/23/15 08:37	07/27/15 19:27	1
Anthracene	<0.00074		0.00074	0.00025	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00021	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-ethylhexyl) phthalate	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Bromophenyl phenyl ether	<0.0037		0.0037	0.00040	mg/L		07/23/15 08:37	07/27/15 19:27	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00035	mg/L		07/23/15 08:37	07/27/15 19:27	1
Carbazole	<0.0037		0.0037	0.00026	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloroaniline	<0.0074		0.0074	0.0015	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloro-3-methylphenol	<0.0074		0.0074	0.0017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chloronaphthalene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chlorophenol	<0.0037		0.0037	0.00041	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chlorophenyl phenyl ether	<0.0037		0.0037	0.00047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Chrysene	0.0016		0.00037	0.000050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenzofuran	<0.0015		0.0015	0.00019	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2-Dichlorobenzene	<0.0015		0.0015	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,3-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,4-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
3,3'-Dichlorobenzidine	<0.0037		0.0037	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
Diethyl phthalate	<0.0015		0.0015	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dimethylphenol	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dimethyl phthalate	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-butyl phthalate	<0.0037		0.0037	0.00054	mg/L		07/23/15 08:37	07/27/15 19:27	1
4,6-Dinitro-2-methylphenol	<0.015	*	0.015	0.0044	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrophenol	<0.015	*	0.015	0.0063	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrotoluene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,6-Dinitrotoluene	<0.00037		0.00037	0.000054	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-octyl phthalate	<0.0074		0.0074	0.00077	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluoranthene	0.0022		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluorene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobenzene	<0.00037		0.00037	0.000059	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobutadiene	<0.0037		0.0037	0.00038	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorocyclopentadiene	<0.015		0.015	0.0047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachloroethane	<0.0037		0.0037	0.00044	mg/L		07/23/15 08:37	07/27/15 19:27	1
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L		07/23/15 08:37	07/27/15 19:27	1
Isophorone	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylnaphthalene	<0.00037		0.00037	0.000048	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylphenol	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Naphthalene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitroaniline	<0.0037		0.0037	0.00095	mg/L		07/23/15 08:37	07/27/15 19:27	1
3-Nitroaniline	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Nitroaniline	<0.0074		0.0074	0.0012	mg/L		07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene	<0.00074		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitrophenol	<0.0074		0.0074	0.0018	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0055	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodi-n-propylamine	<0.00037		0.00037	0.00011	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodiphenylamine	<0.00074		0.00074	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pentachlorophenol	<0.015	*	0.015	0.0029	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenol	<0.0037		0.0037	0.00050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pyrene	0.0018		0.00074	0.00031	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2,4-Trichlorobenzene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,5-Trichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,6-Trichlorophenol	<0.0037		0.0037	0.00053	mg/L		07/23/15 08:37	07/27/15 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		41 - 132				07/23/15 08:37	07/27/15 19:27	1
2-Fluorophenol	56		32 - 110				07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene-d5	76		47 - 134				07/23/15 08:37	07/27/15 19:27	1
Phenol-d5	46		25 - 100				07/23/15 08:37	07/27/15 19:27	1
Terphenyl-d14	87		59 - 150				07/23/15 08:37	07/27/15 19:27	1
2,4,6-Tribromophenol	87		53 - 150				07/23/15 08:37	07/27/15 19:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		0.50	0.27	mg/L		07/21/15 09:30	07/21/15 22:26	5
Antimony	<0.0030		0.0030	0.0010	mg/L		07/21/15 09:30	07/23/15 22:54	1
Arsenic	0.23		0.0050	0.0022	mg/L		07/21/15 09:30	07/21/15 22:26	5
Barium	1.1		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Beryllium	0.012		0.0010	0.00024	mg/L		07/21/15 09:30	07/28/15 16:31	1
Cadmium	0.0073		0.0025	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Calcium	840	B	1.0	0.53	mg/L		07/21/15 09:30	07/21/15 22:26	5
Chromium	0.11		0.025	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Cobalt	0.15		0.0050	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Copper	0.83		0.0020	0.00096	mg/L		07/21/15 09:30	07/28/15 16:31	1
Iron	140		0.50	0.13	mg/L		07/21/15 09:30	07/21/15 22:26	5
Lead	0.62		0.0025	0.00071	mg/L		07/21/15 09:30	07/21/15 22:26	5
Magnesium	380		2.0	0.83	mg/L		07/21/15 09:30	07/23/15 22:58	10
Manganese	1.9		0.013	0.0050	mg/L		07/21/15 09:30	07/21/15 22:26	5
Nickel	0.45		0.010	0.0026	mg/L		07/21/15 09:30	07/21/15 22:26	5
Potassium	28		2.5	0.95	mg/L		07/21/15 09:30	07/21/15 22:26	5
Selenium	0.017		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Silver	0.0020		0.00050	0.000080	mg/L		07/21/15 09:30	07/23/15 22:54	1
Sodium	95		0.20	0.088	mg/L		07/21/15 09:30	07/28/15 16:31	1
Thallium	0.017		0.010	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Vanadium	0.25		0.025	0.011	mg/L		07/21/15 09:30	07/21/15 22:26	5
Zinc	2.4	B	0.10	0.023	mg/L		07/21/15 09:30	07/21/15 22:26	5

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	*	0.00020	0.000061	mg/L		07/22/15 15:00	07/23/15 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

Date Collected: 07/17/15 00:00

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0013	mg/L			07/21/15 13:46	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 13:46	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 13:46	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 13:46	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 13:46	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 13:46	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 13:46	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 13:46	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 13:46	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 13:46	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 13:46	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 13:46	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 13:46	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 13:46	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 13:46	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 13:46	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 13:46	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 13:46	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 13:46	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 13:46	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 13:46	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 13:46	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 13:46	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 120		07/21/15 13:46	1
Dibromofluoromethane	96		75 - 120		07/21/15 13:46	1
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		07/21/15 13:46	1
Toluene-d8 (Surr)	95		75 - 120		07/21/15 13:46	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Chicago

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98751-1

Login Number: 98751
List Number: 1
Creator: James, Jeff A

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3, 2.9, 3.9
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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68 Office Phone Number, if available: _____

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

Shermer Road ROW on SE corner of Shermer and IL Rt 43 IDOT STA 500+30 to 500+90 (ISGS Site 2682-3)

City: Northbrook State: IL Zip Code: 60062

County: Cook Township: Northfield

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

Latitude: 42.13313 Longitude: -87.82094
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

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 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68

Latitude: 42.13313 Longitude: -87.82094

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2682-3. See Exhibits 2 and 2A and Table 3 of the Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015.

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

TestAmerica Lab Report No J98885-2. Also see Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015. CCDD/USFO facility in MSA County.

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

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

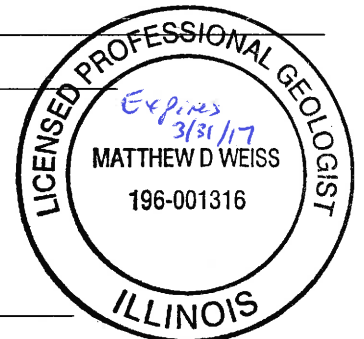
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/4/15
 Date:



Preliminary Site Investigation

FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-3)

Northbrook, IL

Terracon Project No. 11157102

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-3-B01 (0-1)	2682-3-B01 Dup (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	07/21/2015	07/21/2015
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.044	0.027
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.2	0.17
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.22	0.2
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.31	0.27
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.17	0.14
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.17	0.15
Chrysene	mg/kg	1.2	2.7	88		0.28	0.23
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.048	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.5	0.43
Fluorene	mg/kg	0.1	0.18	560		0.0084	0.0084
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.13	0.11
Phenanthrene	mg/kg	1.3	2.5	210		0.19	0.16
Pyrene	mg/kg	1.9	3.0	2300		0.42	0.36
Inorganic Analytical Parameters							
Arsenic	mg/kg	13	13	11.3		5.7	8.2
Barium	mg/kg	110	110	1500		100	91
Cadmium	mg/kg	0.6	0.6	5.2		<0.12	<0.12
Chromium, total	mg/kg	16.2	16.2	21		20	16
Lead	mg/kg	36	36	107		29	22
Mercury	mg/kg	0.06	0.06	0.1		0.037	0.035
Selenium	mg/kg	0.48	0.48	1.3		0.57	0.59
Silver	mg/kg	0.55	0.55	4.4		0.075	<0.30
Antimony	mg/kg	4.0	4.0	5		0.39	0.63
Beryllium	mg/kg	0.59	0.59	22		0.67	0.69
Calcium	mg/kg	9,300	9,300	---		14000	4500
Cobalt	mg/kg	8.9	8.9	20		6.8	7.3
Copper	mg/kg	19.6	19.6	2900		34	23
Cyanide	mg/kg	0.51	0.51	---		<0.59	<0.61
Iron	mg/kg	15,900	15,900	15000		17000	19000
Magnesium	mg/kg	4,820	4,820	325000		8200	3500
Manganese	mg/kg	636	636	630		330	440
Nickel	mg/kg	18	18	100		16	14
Potassium	mg/kg	1,268	1,268	---		1500	1500
Sodium	mg/kg	130	130	---		530	1100
Thallium	mg/kg	0.32	0.32	2.6		<0.61	<0.60
Vanadium	mg/kg	25.2	25.2	550		26	30
Zinc	mg/kg	95	95	5100		54	47
pH			6.25	9		8.43	8.1

Preliminary Site Investigation

FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-3)

Northbrook, IL

Terracon Project No. 11157102

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-3-B01 (0-1)	2682-3-B01 Dup (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	07/21/2015	07/21/2015
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.029	0.037
Barium,SPLP	mg/L	---	---	---		0.82	1.1
Beryllium,SPLP	mg/L	---	---	---		<0.0040	0.006
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		30	30
Chromium,SPLP	mg/L	---	---	---		0.1	0.17
Cobalt,SPLP	mg/L	---	---	---		0.017	0.03
Copper,SPLP	mg/L	---	---	---		0.1	0.16
Iron,SPLP	mg/L	---	---	---		82	140
Lead,SPLP	mg/L	---	---	---		0.051	0.078
Magnesium,SPLP	mg/L	---	---	---		19	27
Manganese,SPLP	mg/L	---	---	---		0.48	1
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.065	0.11
Potassium,SPLP	mg/L	---	---	---		14	20
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.002
Vanadium,SPLP	mg/L	---	---	---		0.16	0.25
Zinc,SPLP	mg/L	---	---	---		0.52	0.68
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.6	0.52
Cadmium,TCLP	mg/L	---	---	---		0.0025	0.0025
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		0.022	0.023
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		260	170
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	0.24
Magnesium,TCLP	mg/L	---	---	---		94	59
Manganese,TCLP	mg/L	---	---	---		0.54	0.32
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		4	4.7
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.15	0.27

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-98885-2

Client Project/Site: IDOT - Northbrook - WO 002

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

7/31/2015 6:18:58 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	7
Client Sample Results	8
Definitions	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Job ID: 500-98885-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98885-2

Receipt

The samples were received on 7/22/2015 12:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° C.

Receipt Exceptions

Lab sample 16 bottles have ID of 2682-4-B24 (0-5) with time of 1000, and sample 17 bottles have ID of 2682-4-B24 (5-11) with time of 0950, The lab logged in per COC.

Cyanide for lab sample 18 was logged in 7/30/15. The lab used the extra unpreserved amber glass bottle used for SVOC after confirmation the extra sample would not be needed. The bottle was preserved with NaOH on 7/30/15,

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method(s) 6010B: The continuing calibration verification (CCV) at line 73 associated with batch 500-297816 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 2682-3-B01 (0-1) (500-98885-19) and 2682-3-B01 Dup (0-1) (500-98885-20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.044		0.039	0.0066	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.039	0.0053	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.039	0.0085	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.039	0.013	mg/Kg	1	*	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.039	0.012	mg/Kg	1	*	☼	8270D	Total/NA
Chrysene	0.28		0.039	0.011	mg/Kg	1	*	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.048		0.039	0.0076	mg/Kg	1	*	☼	8270D	Total/NA
Fluoranthene	0.50		0.039	0.0073	mg/Kg	1	*	☼	8270D	Total/NA
Fluorene	0.0084	J	0.039	0.0055	mg/Kg	1	*	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.039	0.010	mg/Kg	1	*	☼	8270D	Total/NA
Phenanthrene	0.19		0.039	0.0055	mg/Kg	1	*	☼	8270D	Total/NA
Pyrene	0.42		0.039	0.0078	mg/Kg	1	*	☼	8270D	Total/NA
Aluminum	12000		12	3.0	mg/Kg	1	*	☼	6010B	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	*	☼	6010B	Total/NA
Arsenic	5.7		0.61	0.28	mg/Kg	1	*	☼	6010B	Total/NA
Barium	100		0.61	0.11	mg/Kg	1	*	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.053	mg/Kg	1	*	☼	6010B	Total/NA
Chromium	20		0.61	0.11	mg/Kg	1	*	☼	6010B	Total/NA
Cobalt	6.8		0.31	0.069	mg/Kg	1	*	☼	6010B	Total/NA
Copper	34		0.61	0.13	mg/Kg	1	*	☼	6010B	Total/NA
Iron	17000		12	4.7	mg/Kg	1	*	☼	6010B	Total/NA
Lead	29		0.31	0.15	mg/Kg	1	*	☼	6010B	Total/NA
Magnesium	8200	B	6.1	2.5	mg/Kg	1	*	☼	6010B	Total/NA
Calcium	14000	B	12	3.9	mg/Kg	1	*	☼	6010B	Total/NA
Manganese	330		0.61	0.12	mg/Kg	1	*	☼	6010B	Total/NA
Nickel	16		0.61	0.17	mg/Kg	1	*	☼	6010B	Total/NA
Selenium	0.57	J	0.61	0.30	mg/Kg	1	*	☼	6010B	Total/NA
Silver	0.075	J	0.31	0.071	mg/Kg	1	*	☼	6010B	Total/NA
Vanadium	26		0.31	0.089	mg/Kg	1	*	☼	6010B	Total/NA
Zinc	54	B	1.2	0.39	mg/Kg	1	*	☼	6010B	Total/NA
Potassium	1500		31	5.0	mg/Kg	1	*	☼	6010B	Total/NA
Sodium	530		61	8.1	mg/Kg	1	*	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.60		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	94		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.15	B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	85		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.029	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.82		0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	82		0.20	0.20	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1) (Continued)

Lab Sample ID: 500-98885-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.051		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.065		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.52		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.027	J	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.23		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0084	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.36		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Aluminum	12000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.63	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	4500	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	47	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	170		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.24		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1) (Continued)

Lab Sample ID: 500-98885-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.27	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	150		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.1		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0060		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.078		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.68		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0020		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.035		0.020	0.0068	mg/Kg	1	✱	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98885-19	2682-3-B01 (0-1)	Solid	07/21/15 15:15	07/22/15 12:45
500-98885-20	2682-3-B01 Dup (0-1)	Solid	07/21/15 15:20	07/22/15 12:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:38	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Barium	0.60		0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:38	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:38	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:38	1
Calcium	260		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:38	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:38	1
Magnesium	94		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:38	1
Manganese	0.54		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Potassium	4.0		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:48	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:38	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:38	1
Zinc	0.15	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	85		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:33	1
Arsenic	0.029	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Barium	0.82		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 03:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 03:33	1
Calcium	30		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:33	1
Chromium	0.10		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Copper	0.10		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Iron	82		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:33	1
Lead	0.051		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 03:33	1
Magnesium	19		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:33	1
Manganese	0.48		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Nickel	0.065		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Potassium	14		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:33	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 03:33	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Vanadium	0.16		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:33	1
Zinc	0.52		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 03:33	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		07/29/15 09:00	07/31/15 15:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 11:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU	-		07/24/15 09:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 122	07/22/15 15:35	07/24/15 18:18	1
Dibromofluoromethane	108		75 - 120	07/22/15 15:35	07/24/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/22/15 15:35	07/24/15 18:18	1
Toluene-d8 (Surr)	95		75 - 122	07/22/15 15:35	07/24/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Anthracene	0.044		0.039	0.0066	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Benzo[a]anthracene	0.20		0.039	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Benzo[b]fluoranthene	0.31		0.039	0.0085	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Benzo[g,h,i]perylene	0.17		0.039	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Benzo[k]fluoranthene	0.17		0.039	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Chrysene	0.28		0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Dibenz(a,h)anthracene	0.048		0.039	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Fluoranthene	0.50		0.039	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Fluorene	0.0084 J		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Indeno[1,2,3-cd]pyrene	0.13		0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Phenanthrene	0.19		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
Pyrene	0.42		0.039	0.0078	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 11:00	07/30/15 06:25	1
2-Fluorophenol	69		25 - 110	07/24/15 11:00	07/30/15 06:25	1
Nitrobenzene-d5	71		25 - 115	07/24/15 11:00	07/30/15 06:25	1
Phenol-d5	80		31 - 110	07/24/15 11:00	07/30/15 06:25	1
Terphenyl-d14	91		36 - 134	07/24/15 11:00	07/30/15 06:25	1
2,4,6-Tribromophenol	65		35 - 137	07/24/15 11:00	07/30/15 06:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12	3.0	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Antimony	0.39	J	1.2	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Arsenic	5.7		0.61	0.28	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Barium	100		0.61	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Beryllium	0.67		0.24	0.053	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Chromium	20		0.61	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Cobalt	6.8		0.31	0.069	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Copper	34		0.61	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Iron	17000		12	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Lead	29		0.31	0.15	mg/Kg	☼	07/24/15 10:00	07/27/15 05:17	1
Magnesium	8200	B	6.1	2.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Calcium	14000	B	12	3.9	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Manganese	330		0.61	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Nickel	16		0.61	0.17	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Selenium	0.57	J	0.61	0.30	mg/Kg	☼	07/24/15 10:00	07/27/15 05:17	1
Silver	0.075	J	0.31	0.071	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	07/24/15 10:00	07/27/15 05:17	1
Vanadium	26		0.31	0.089	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Zinc	54	B	1.2	0.39	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Potassium	1500		31	5.0	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1
Sodium	530		61	8.1	mg/Kg	☼	07/24/15 10:00	07/25/15 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0065	mg/Kg	☼	07/29/15 15:30	07/30/15 12:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 (0-1)

Lab Sample ID: 500-98885-19

Date Collected: 07/21/15 15:15

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 80.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	07/28/15 19:55	07/28/15 21:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:43	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Barium	0.52		0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:43	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:43	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:43	1
Calcium	170		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Iron	0.24		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:43	1
Magnesium	59		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:43	1
Manganese	0.32		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Potassium	4.7		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:53	1
Selenium	0.023	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:43	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:43	1
Zinc	0.27	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	150		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:40	1
Arsenic	0.037	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Barium	1.1		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 03:40	1
Beryllium	0.0060		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 03:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 03:40	1
Calcium	30		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:40	1
Chromium	0.17		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Cobalt	0.030		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Copper	0.16		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Iron	140		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:40	1
Lead	0.078		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 03:40	1
Magnesium	27		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:40	1
Manganese	1.0		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Nickel	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Potassium	20		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 03:40	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Vanadium	0.25		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:40	1
Zinc	0.68		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 03:40	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		07/29/15 09:00	07/31/15 15:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 11:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU	-		07/24/15 09:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0039	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/22/15 15:35	07/24/15 18:42	1
Dibromofluoromethane	107		75 - 120	07/22/15 15:35	07/24/15 18:42	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/22/15 15:35	07/24/15 18:42	1
Toluene-d8 (Surr)	94		75 - 122	07/22/15 15:35	07/24/15 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Anthracene	0.027	J	0.040	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Benzo[a]anthracene	0.17		0.040	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.20		0.040	0.0079	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Benzo[b]fluoranthene	0.27		0.040	0.0088	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Chrysene	0.23		0.040	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Fluoranthene	0.43		0.040	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Fluorene	0.0084 J		0.040	0.0057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Phenanthrene	0.16		0.040	0.0057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
Pyrene	0.36		0.040	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/24/15 11:00	07/30/15 06:49	1
2-Fluorophenol	58		25 - 110	07/24/15 11:00	07/30/15 06:49	1
Nitrobenzene-d5	59		25 - 115	07/24/15 11:00	07/30/15 06:49	1
Phenol-d5	69		31 - 110	07/24/15 11:00	07/30/15 06:49	1
Terphenyl-d14	82		36 - 134	07/24/15 11:00	07/30/15 06:49	1
2,4,6-Tribromophenol	52		35 - 137	07/24/15 11:00	07/30/15 06:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12	2.9	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Antimony	0.63	J	1.2	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Arsenic	8.2		0.60	0.28	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Barium	91		0.60	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Beryllium	0.69		0.24	0.052	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Chromium	16		0.60	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Cobalt	7.3		0.30	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Copper	23		0.60	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Iron	19000		12	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Lead	22		0.30	0.15	mg/Kg	☼	07/24/15 10:00	07/27/15 05:30	1
Magnesium	3500	B	6.0	2.4	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Calcium	4500	B	12	3.8	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Manganese	440		0.60	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Nickel	14		0.60	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Selenium	0.59	J	0.60	0.30	mg/Kg	☼	07/24/15 10:00	07/27/15 05:30	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 05:30	1
Vanadium	30		0.30	0.087	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Zinc	47	B	1.2	0.38	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Potassium	1500		30	4.9	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1
Sodium	1100		60	7.9	mg/Kg	☼	07/24/15 10:00	07/25/15 12:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0068	mg/Kg	☼	07/29/15 15:30	07/30/15 12:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Client Sample ID: 2682-3-B01 Dup (0-1)

Lab Sample ID: 500-98885-20

Date Collected: 07/21/15 15:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 81.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	07/28/15 19:55	07/28/15 22:00	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-2

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 135 Ambassador Dr.
Naperville, IL 60540
 Phone: 630-717-4263
 Fax: 630-357-9489
 E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-98885
 Chain of Custody Number: _____
 Page 3 of 5
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
		<u>11157102</u>										
Project Name		Lab Project #		VOCS		Specs		Total 24 metals*				
Project Location/State		Lab PM		Specs		Total 24 metals*		TCLP 24 metals*				
<u>Northbrook, IL</u>		<u>Chad Kelly</u>		Specs		Total 24 metals*		SPLP 24 metals*				
Sampler				Specs		Total 24 metals*		SPLP 24 metals*				
				Specs		Total 24 metals*		SPLP 24 metals*				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	Specs	Total 24 metals*	TCLP 24 metals*	SPLP 24 metals*	Comments
<u>19</u>		<u>2682-3-Bo1 (0-1)</u>	<u>7/16/15</u>	<u>3:15</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>20</u>		<u>2682-3-Bo1 Ap (0-1)</u>	<u>7/16/15</u>	<u>3:20</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

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

Relinquished By <u>Chad Kelly</u> Company <u>Terracon</u> Date <u>7/22/15</u> Time <u>1110</u>	Received By <u>Mr. [Signature]</u> Company <u>TA</u> Date <u>7/22/15</u> Time <u>1110</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>7/22/15</u> Time <u>1245</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>7/22/15</u> Time <u>1245</u>

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: IL TACO
* Total 24 Inorganics
* TCLP 24 Inorganics
* SPLP 24 Inorganics

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98885-2

Login Number: 98885
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7,3.1
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.	False	
Samples are received within Holding Time.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68 Office Phone Number, if available: _____

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

Shermer Road ROW from 440 ft west of IL Rt 43 to Lee Rd, IDOT STA 504+60 to 535+30 (ISGS Site 2682-4)

City: Northbrook State: IL Zip Code: 60062

County: Cook Township: Northfield

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

Latitude: 42.13313 Longitude: -87.82094
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

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 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68

Latitude: 42.13313 Longitude: -87.82094

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01, B02, B04, B06 through B08, B10 through B12, B14A, B15, B17, B20, B24 through B28, B30 and B31 were sampled adjacent to ISGS Site No 2682-4. See Exhibits 2 through 4C and Table 5 of the Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015.

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

TestAmerica Lab Report Nos J98751-1, J98751-2, J98820-1, and J98885-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015. CCDD/USFO facility in MSA County. Only borings listed above are certified.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

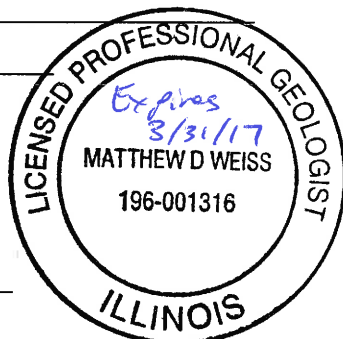
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/4/15
Date:



Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 1 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B01	2682-4-B01	2682-4-B02	2682-4-B02	2682-4-B03	2682-4-B03	2682-4-B04	2682-4-B04	
						(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	
		CCDD	Sample Depth (feet)	Date Collected	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
					mg/kg pH 6.25-9.0									
Chicago	MSAs													
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		0.016	0.014	<0.0042	0.0071	<0.0050	0.0056	<0.0046	<0.0050	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.037	<0.038	
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.038	<0.038	<0.038	0.033	<0.038	<0.037	<0.038	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0054	<0.038	<0.038	0.0054	0.39	0.033	<0.037	<0.038	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.038	<0.038	<0.038	0.44	0.034	<0.037	<0.038	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	<0.038	<0.038	0.01	0.65	0.055	<0.037	<0.038	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	<0.038	<0.038	<0.038	0.54	0.044	<0.037	<0.038	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.038	<0.038	<0.038	0.26	0.039	<0.037	<0.038	
Chrysene	mg/kg	1.2	2.7	88		<0.038	<0.038	<0.038	0.016	0.49	0.038	<0.037	<0.038	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.038	<0.038	<0.038	0.12	<0.038	<0.037	<0.038	
Fluoranthene	mg/kg	2.7	4.1	3100		0.0075	<0.038	<0.038	0.0091	0.78	0.05	<0.037	<0.038	
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.038	<0.038	<0.038	0.0087	<0.038	<0.037	<0.038	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	<0.038	<0.038	<0.038	0.43	0.032	<0.037	<0.038	
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	<0.038	<0.038	<0.038	0.24	0.014	<0.037	<0.038	
Pyrene	mg/kg	1.9	3.0	2300		0.0076	<0.038	<0.038	0.011	0.9	0.051	<0.037	<0.038	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		7.1	6.1	3.9	4.8	6.3	7.4	6.7	6.1	
Barium	mg/kg	110	110	1500		46	34	26	32	49	35	51	42	
Cadmium	mg/kg	0.6	0.6	5.2		0.16	0.2	0.19	0.15	0.2	0.18	<0.12	<0.11	
Chromium, total	mg/kg	16.2	16.2	21		18	17	17	17	19	17	20	17	
Lead	mg/kg	36	36	107		14	9.4	9.1	8.9	15	12	9.6	9.6	
Mercury	mg/kg	0.06	0.06	0.1		0.023	0.026	0.014	0.029	0.031	0.03	0.026	0.018	
Selenium	mg/kg	0.48	0.48	1.3		0.47	0.49	1.3	0.38	0.48	0.77	0.46	0.39	
Silver	mg/kg	0.55	0.55	4.4		<0.29	<0.28	0.066	<0.28	<0.29	<0.29	<0.29	<0.28	
Antimony	mg/kg	4.0	4.0	5		0.55	0.35	0.84	0.33	0.34	0.53	0.56	0.23	
Beryllium	mg/kg	0.59	0.59	22		0.71	0.62	22	0.6	0.61	0.62	0.79	0.64	
Calcium	mg/kg	9,300	9,300	---		50000	77000	78000	77000	44000	69000	53000	84000	
Cobalt	mg/kg	8.9	8.9	20		9.7	11	6	5	8.2	12	8.4	9.6	
Copper	mg/kg	19.6	19.6	2900		23	20	20	18	16	23	20	18	
Cyanide	mg/kg	0.51	0.51	---		<0.55	<0.57	<0.56	<0.54	<0.55	<0.58	<0.58	<0.50	
Iron	mg/kg	15,900	15,900	15000		20000	17000	16000	17000	18000	19000	20000	17000	
Magnesium	mg/kg	4,820	4,820	325000		30000	32000	34000	33000	24000	30000	30000	32000	
Manganese	mg/kg	636	636	630		590	490	390	380	570	540	440	520	
Nickel	mg/kg	18	18	100		25	24	19	18	18	27	24	27	
Potassium	mg/kg	1,268	1,268	---		2600	3100	---	3100	3000	2700	3500	3700	
Sodium	mg/kg	130	130	---		400	210	290	240	2200	1900	1200	220	
Thallium	mg/kg	0.32	0.32	2.6		1.3	1.3	1.1	1.2	1.3	1.2	<0.58	<0.56	
Vanadium	mg/kg	25.2	25.2	550		23	20	20	19	24	21	26	20	
Zinc	mg/kg	95	95	5100		46	40	42	42	50	41	39	40	
pH			6.25	9		8.36	8.36	8.32	8.49	9.39	9.08	9	8.4	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 2 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B01	2682-4-B01	2682-4-B02	2682-4-B02	2682-4-B03	2682-4-B03	2682-4-B04	2682-4-B04		
						(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)		
		Chicago	MSAs	CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
				mg/kg pH 6.25-9.0		Date Collected	07/17/2015	07/17/2015	07/17/2015	07/17/2015	07/17/2015	07/17/2015	07/21/2015	07/21/2015	
Inorganic Analytical Parameters (SPLP)															
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		
Arsenic,SPLP	mg/L	---	---	---		0.013	0.028	0.027	0.03	0.042	<0.050	0.049	<0.050		
Barium,SPLP	mg/L	---	---	---		0.2	0.21	0.28	0.22	0.32	0.071	0.51	0.33		
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	0.0052	<0.0040	0.0072	<0.0040		
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		
Calcium,SPLP	mg/L	---	---	---		30	42	59	57	36	40	39	56		
Chromium,SPLP	mg/L	---	---	---		0.043	0.067	0.085	0.069	0.13	<0.025	0.16	0.035		
Cobalt,SPLP	mg/L	---	---	---		0.016	0.016	0.019	0.016	0.032	<0.025	0.036	<0.025		
Copper,SPLP	mg/L	---	---	---		0.053	0.11	0.1	0.092	0.14	0.025	0.15	0.037		
Iron,SPLP	mg/L	---	---	---		34	62	71	61	110	2.4	140	25		
Lead,SPLP	mg/L	---	---	---		0.023	0.03	0.031	0.029	0.068	<0.0075	0.049	0.014		
Magnesium,SPLP	mg/L	---	---	---		13	25	33	28	27	4.6	42	20		
Manganese,SPLP	mg/L	---	---	---		0.36	0.28	0.35	0.33	0.91	0.047	0.57	0.18		
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Nickel,SPLP	mg/L	---	---	---		0.045	0.073	0.082	0.066	0.11	<0.025	0.15	0.029		
Potassium,SPLP	mg/L	---	---	---		11	17	20	17	22	3.3	33	11		
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		
Sodium,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----		
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0036	<0.0020		
Vanadium,SPLP	mg/L	---	---	---		0.056	0.076	0.094	0.081	0.17	<0.025	0.19	0.042		
Zinc,SPLP	mg/L	---	---	---		0.11	0.42	0.2	0.53	0.34	0.28	0.34	0.22		
Cyanide,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----		
Inorganic Analytical Parameters (TCLP)															
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	0.014	0.011	<0.050	<0.050	<0.050		
Barium,TCLP	mg/L	---	---	---		0.41	0.3	0.4	0.38	0.24	0.42	0.28	0.34		
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	0.003		
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075		
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.025	0.021		
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040		
Calcium,TCLP	mg/L	---	---	---		400	590	580	580	450	600	1200	600		
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.026	<0.025		
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	0.016	0.014	<0.025	<0.025		
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----		
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	0.22	0.31	<0.20	<0.20	<0.20	0.26		
Magnesium,TCLP	mg/L	---	---	---		38	54	36	41	58	26	260	51		
Manganese,TCLP	mg/L	---	---	---		2.3	0.77	0.37	0.76	0.16	1.1	4	0.78		
Nickel,TCLP	mg/L	---	---	---		0.01	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	<0.025		
Potassium,TCLP	mg/L	---	---	---		2.6	2.5	2.8	3.1	4.3	3.6	<2.5	1.9		
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----		
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020		
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		
Zinc,TCLP	mg/L	---	---	---		0.03	0.1	0.024	0.057	0.037	0.036	0.057	0.023		

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 3 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B05	2682-4-B05	2682-4-B06	2682-4-B06	2682-4-B07	2682-4-B07	2682-4-B08	2682-4-B08	
						(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	
		CCDD	Sample Depth (feet)	Date Collected	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
					mg/kg pH 6.25-9.0									
Chicago	MSAs													
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0046	<0.0038	0.0093	<0.0049	<0.0046	<0.0047	<0.0045	<0.0043	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		0.011	<0.037	<0.039	<0.037	<0.039	<0.036	<0.038	<0.037	
Anthracene	mg/kg	0.25	0.4	12000		0.081	<0.037	<0.039	<0.037	<0.039	<0.036	<0.038	<0.037	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.37	0.013	<0.039	<0.037	0.046	<0.036	<0.038	<0.037	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.33	0.015	<0.039	<0.037	0.048	<0.036	<0.038	<0.037	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.46	0.029	<0.039	<0.037	0.075	<0.036	<0.038	<0.037	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.38	0.024	<0.039	<0.037	0.06	0.019	<0.038	<0.037	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.2	0.015	<0.039	<0.037	0.035	<0.036	<0.038	<0.037	
Chrysene	mg/kg	1.2	2.7	88		0.35	0.027	<0.039	<0.037	0.056	0.018	<0.038	<0.037	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.12	<0.037	<0.039	<0.037	0.017	<0.036	<0.038	<0.037	
Fluoranthene	mg/kg	2.7	4.1	3100		0.7	0.047	<0.039	<0.037	0.086	<0.036	0.0078	<0.037	
Fluorene	mg/kg	0.1	0.18	560		0.013	<0.037	<0.039	<0.037	<0.039	<0.036	<0.038	<0.037	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.3	0.014	<0.039	<0.037	0.045	<0.036	<0.038	<0.037	
Phenanthrene	mg/kg	1.3	2.5	210		0.26	0.034	<0.039	<0.037	0.044	0.012	<0.038	<0.037	
Pyrene	mg/kg	1.9	3.0	2300		0.76	0.044	<0.039	<0.037	0.089	0.0093	0.0084	<0.037	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		3.3	5.8	8.8	6.3	8.8	6.1	5.0	5.7	
Barium	mg/kg	110	110	1500		54	40	27	42	69	25	45	36	
Cadmium	mg/kg	0.6	0.6	5.2		0.43	0.1	<0.11	<0.11	<0.12	0.12	<0.11	<0.11	
Chromium, total	mg/kg	16.2	16.2	21		10	18	12	18	24	13	16	15	
Lead	mg/kg	36	36	107		16	9.3	9	9.3	18	14	8.3	7.8	
Mercury	mg/kg	0.06	0.06	0.1		0.044	0.02	0.019	0.02	0.043	0.018	0.016	0.019	
Selenium	mg/kg	0.48	0.48	1.3		<2.8	0.76	1.3	0.55	0.36	1.6	<0.54	0.28	
Silver	mg/kg	0.55	0.55	4.4		<1.4	<0.29	<0.28	<0.29	<0.30	<0.27	<0.28	<0.28	
Antimony	mg/kg	4.0	4.0	5		<5.6	0.28	0.32	0.38	0.66	0.33	0.49	0.37	
Beryllium	mg/kg	0.59	0.59	22		0.42	0.69	0.51	0.69	0.91	0.61	0.59	0.57	
Calcium	mg/kg	9,300	9,300	---		160000	85000	88000	92000	7800	97000	86000	100000	
Cobalt	mg/kg	8.9	8.9	20		3.3	8.2	7.1	9	13	11	5.3	6.3	
Copper	mg/kg	19.6	19.6	2900		12	21	23	21	22	23	16	18	
Cyanide	mg/kg	0.51	0.51	---		<0.53	<0.57	<0.55	<0.57	<0.61	<0.56	<0.56	<0.56	
Iron	mg/kg	15,900	15,900	15000		9300	18000	17000	18000	25000	16000	16000	16000	
Magnesium	mg/kg	4,820	4,820	325000		62000	33000	31000	32000	7900	29000	28000	34000	
Manganese	mg/kg	636	636	630		470	460	470	500	600	530	390	360	
Nickel	mg/kg	18	18	100		10	23	20	23	26	31	17	19	
Potassium	mg/kg	1,268	1,268	---		910	3800	2300	3700	2800	2400	3300	3300	
Sodium	mg/kg	130	130	---		1500	1400	420	330	2100	430	680	470	
Thallium	mg/kg	0.32	0.32	2.6		<2.8	1.2	<0.57	<0.57	1.6	<0.54	<0.57	<0.55	
Vanadium	mg/kg	25.2	25.2	550		15	22	18	22	32	15	19	19	
Zinc	mg/kg	95	95	5100		37	41	38	39	55	71	34	34	
pH			6.25	9		9.5	8.99	8.89	8.67	8.24	7.95	8.52	8.67	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 4 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B05	2682-4-B05	2682-4-B06	2682-4-B06	2682-4-B07	2682-4-B07	2682-4-B08	2682-4-B08
						(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
		Chicago	MSAs	CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)
				mg/kg pH 6.25-9.0		Date Collected	07/17/2015	07/17/2015	07/21/2015	07/21/2015	07/17/2015	07/17/2015	07/21/2015
Inorganic Analytical Parameters (SPLP)													
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	<0.050	0.018	0.019	0.019	0.022	0.029	0.026
Barium,SPLP	mg/L	---	---	---		<0.50	0.071	0.48	0.36	0.14	0.16	0.53	0.44
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0042	<0.0040
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		33	42	25	37	17	27	66	55
Chromium,SPLP	mg/L	---	---	---		<0.025	<0.025	0.076	0.052	0.021	0.048	0.092	0.069
Cobalt,SPLP	mg/L	---	---	---		<0.025	<0.025	0.017	0.014	<0.025	0.01	0.02	0.016
Copper,SPLP	mg/L	---	---	---		0.017	0.018	0.08	0.069	0.036	0.075	0.092	0.08
Iron,SPLP	mg/L	---	---	---		1.2	2.1	58	46	7.7	41	77	57
Lead,SPLP	mg/L	---	---	---		<0.0075	<0.0075	0.026	0.021	0.017	0.026	0.035	0.024
Magnesium,SPLP	mg/L	---	---	---		3.4	5.5	19	19	6.8	20	31	29
Manganese,SPLP	mg/L	---	---	---		0.017	0.064	0.46	0.28	0.068	0.19	0.38	0.29
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		<0.025	<0.025	0.069	0.053	0.012	0.05	0.078	0.066
Potassium,SPLP	mg/L	---	---	---		2	3.2	14	13	6.1	14	23	17
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,SPLP	mg/L	---	---	---		<0.025	<0.025	0.097	0.068	0.02	0.055	0.11	0.079
Zinc,SPLP	mg/L	---	---	---		0.076	0.053	0.34	0.29	0.14	0.19	0.39	0.36
Cyanide,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Inorganic Analytical Parameters (TCLP)													
Arsenic,TCLP	mg/L	---	---	---		0.011	<0.050	<0.050	<0.050	0.011	0.011	<0.050	0.012
Barium,TCLP	mg/L	---	---	---		0.23	0.32	0.36	0.36	0.41	0.29	0.5	0.46
Cadmium,TCLP	mg/L	---	---	---		<0.0050	0.0028	0.0035	0.0029	<0.0050	0.0026	0.0053	0.0053
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	0.022	0.02	<0.050	<0.050	0.023	0.027
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		460	1000	590	540	220	450	1400	1300
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.038	<0.025	<0.025	<0.025	<0.025	0.017	0.032
Copper,TCLP	mg/L	---	---	---		<0.025	0.013	<0.025	<0.025	<0.025	0.013	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Iron,TCLP	mg/L	---	---	---		<0.20	0.27	<0.20	0.39	0.34	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		19	210	35	54	98	86	130	160
Manganese,TCLP	mg/L	---	---	---		0.13	3.2	1.8	0.9	0.86	1.1	2.8	2.7
Nickel,TCLP	mg/L	---	---	---		<0.025	0.03	0.014	<0.025	<0.025	0.015	0.029	0.038
Potassium,TCLP	mg/L	---	---	---		2.9	2.6	1.3	2.3	4.7	3.6	2	2.1
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.10	0.44	0.066	0.24	0.085	0.093	0.13	0.12

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 5 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B09 (0-5)	2682-4-B09 (5-11)	2682-4-B10 (0-5)	2682-4-B10 (5-11)	2682-4-B11 (0-5)	2682-4-B11 (5-11)	2682-4-B11 DUP (5-11)	2682-4-B12 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(5-11)	(0-5)
		mg/kg	Date Collected	07/17/2015	07/17/2015	07/21/2015	07/21/2015	07/17/2015	07/17/2015	07/17/2015	07/17/2015	07/21/2015	
		pH 6.25-9.0		Chicago	MSAs	07/17/2015	07/17/2015	07/21/2015	07/21/2015	07/17/2015	07/17/2015	07/17/2015	07/21/2015
Volatile Organic Analytical Parameters													
Acetone	mg/kg	---	---	25		<0.0043	<0.0043	0.022	<0.0049	<0.0038	0.0092	0.0045	<0.0051
Semivolatile Organic Analytical Parameters													
Acenaphthene	mg/kg	0.09	0.13	570		<0.040	<0.036	<0.039	<0.037	<0.040	<0.037	<0.038	<0.039
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.036	<0.039	<0.037	<0.040	<0.037	<0.038	0.021
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.025	<0.036	0.03	<0.037	0.044	<0.037	0.0064	0.034
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.037	<0.036	0.028	<0.037	0.038	<0.037	<0.038	0.031
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.035	<0.036	0.039	<0.037	0.051	<0.037	<0.038	0.044
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.15	<0.036	<0.039	<0.037	0.05	<0.037	<0.038	0.021
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.022	<0.036	0.019	<0.037	0.027	<0.037	<0.038	0.019
Chrysene	mg/kg	1.2	2.7	88		0.033	<0.036	0.032	<0.037	0.049	<0.037	0.014	0.035
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	<0.036	<0.039	<0.037	0.013	<0.037	<0.038	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		0.039	<0.036	0.059	<0.037	0.058	<0.037	<0.038	0.089
Fluorene	mg/kg	0.1	0.18	560		<0.040	<0.036	<0.039	<0.037	<0.040	<0.037	<0.038	0.01
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.052	<0.036	0.017	<0.037	0.033	<0.037	<0.038	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		0.021	<0.036	0.044	<0.037	0.033	<0.037	0.014	0.07
Pyrene	mg/kg	1.9	3.0	2300		0.042	<0.036	0.044	<0.037	0.066	<0.037	0.014	0.071
Inorganic Analytical Parameters													
Arsenic	mg/kg	13	13	11.3		7.3	4.4	7.5	5.8	7.7	5.7	5.3	8.0
Barium	mg/kg	110	110	1500		87	33	72	33	64	33	33	36
Cadmium	mg/kg	0.6	0.6	5.2		0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11
Chromium, total	mg/kg	16.2	16.2	21		17	15	22	15	17	14	14	18
Lead	mg/kg	36	36	107		44	10	29	8.7	51	11	12	14
Mercury	mg/kg	0.06	0.06	0.1		0.055	0.011	0.04	0.023	0.051	0.019	0.012	0.023
Selenium	mg/kg	0.48	0.48	1.3		0.52	<0.57	1.3	0.65	0.63	0.52	<0.58	0.29
Silver	mg/kg	0.55	0.55	4.4		<0.30	<0.28	<0.30	<0.28	<0.30	<0.28	<0.29	<0.29
Antimony	mg/kg	4.0	4.0	5		0.29	<1.1	0.28	<1.1	0.39	0.28	0.34	0.6
Beryllium	mg/kg	0.59	0.59	22		0.72	0.69	0.85	0.55	0.85	0.65	0.62	0.68
Calcium	mg/kg	9,300	9,300	---		17000	90000	8000	93000	23000	97000	90000	87000
Cobalt	mg/kg	8.9	8.9	20		15	9	11	9.1	12	11	11	9.7
Copper	mg/kg	19.6	19.6	2900		19	22	28	19	26	22	22	23
Cyanide	mg/kg	0.51	0.51	---		<0.60	<0.54	<0.58	<0.57	<0.57	<0.54	<0.56	<0.58
Iron	mg/kg	15,900	15,900	15000		20000	17000	22000	16000	22000	18000	17000	22000
Magnesium	mg/kg	4,820	4,820	325000		11000	29000	7300	35000	15000	32000	30000	31000
Manganese	mg/kg	636	636	630		950	430	230	620	500	500	480	550
Nickel	mg/kg	18	18	100		23	27	24	23	31	28	28	30
Potassium	mg/kg	1,268	1,268	---		1600	2700	2600	3100	2000	2300	2300	3300
Sodium	mg/kg	130	130	---		1600	590	1500	260	1300	820	470	1300
Thallium	mg/kg	0.32	0.32	2.6		<0.60	<0.57	<0.59	<0.56	<0.60	<0.57	<0.58	<0.57
Vanadium	mg/kg	25.2	25.2	550		26	18	30	18	24	17	17	25
Zinc	mg/kg	95	95	5100		83	52	76	36	83	50	57	48
pH			6.25	9		8.66	8.43	8.66	8.61	8.63	8.56	8.1	8.76

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 6 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B09	2682-4-B09	2682-4-B10	2682-4-B10	2682-4-B11	2682-4-B11	2682-4-B11	2682-4-B12	
						(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(5-11)	(0-5)	
		Chicago	MSAs	CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(5-11)	(5-11)	(0-5)
				mg/kg pH 6.25-9.0		Date Collected	07/17/2015	07/17/2015	07/21/2015	07/21/2015	07/17/2015	07/17/2015	07/17/2015	07/21/2015
Inorganic Analytical Parameters (SPLP)														
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Arsenic,SPLP	mg/L	---	---	---		0.055	0.045	0.077	0.028	0.039	0.055	<0.050	0.05	
Barium,SPLP	mg/L	---	---	---		0.73	0.45	0.85	0.47	0.38	0.43	0.093	0.66	
Beryllium,SPLP	mg/L	---	---	---		0.008	0.0057	0.009	<0.0040	0.0052	0.0062	<0.0040	0.0069	
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Calcium,SPLP	mg/L	---	---	---		35	81	26	53	19	67	28	47	
Chromium,SPLP	mg/L	---	---	---		0.22	0.14	0.2	0.081	0.12	0.16	0.023	0.15	
Cobalt,SPLP	mg/L	---	---	---		0.047	0.041	0.047	0.018	0.029	0.049	<0.025	0.032	
Copper,SPLP	mg/L	---	---	---		0.22	0.2	0.22	0.094	0.14	0.24	0.022	0.16	
Iron,SPLP	mg/L	---	---	---		190	130	190	69	120	150	12	140	
Lead,SPLP	mg/L	---	---	---		0.13	0.055	0.1	0.031	0.083	0.077	0.0087	0.052	
Magnesium,SPLP	mg/L	---	---	---		37	51	43	34	21	51	12	43	
Manganese,SPLP	mg/L	---	---	---		1.4	0.92	0.96	0.33	0.95	0.86	0.17	0.53	
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Nickel,SPLP	mg/L	---	---	---		0.17	0.17	0.19	0.077	0.11	0.18	0.021	0.14	
Potassium,SPLP	mg/L	---	---	---		29	29	35	20	16	30	7.9	33	
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Thallium,SPLP	mg/L	---	---	---		0.0032	0.0021	0.0037	<0.0020	0.0021	0.0029	<0.0020	0.003	
Vanadium,SPLP	mg/L	---	---	---		0.28	0.13	0.25	0.091	0.17	0.15	0.029	0.18	
Zinc,SPLP	mg/L	---	---	---		0.67	0.5	0.65	0.37	0.61	0.45	0.051	0.51	
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Inorganic Analytical Parameters (TCLP)														
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Barium,TCLP	mg/L	---	---	---		0.3	0.35	0.49	0.4	0.31	0.37	0.34	0.39	
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	0.0029	0.0027	<0.0050	<0.0050	<0.0050	0.0026	
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	0.023	0.02	<0.050	<0.050	<0.050	0.023	
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	
Calcium,TCLP	mg/L	---	---	---		230	440	310	570	220	510	380	570	
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.017	<0.025	
Copper,TCLP	mg/L	---	---	---		<0.025	0.013	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	
Magnesium,TCLP	mg/L	---	---	---		110	32	140	51	96	59	42	35	
Manganese,TCLP	mg/L	---	---	---		1.6	0.95	2.8	0.66	0.83	1.4	1.5	0.33	
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.013	<0.025	<0.025	0.016	0.053	<0.025	
Potassium,TCLP	mg/L	---	---	---		1.9	2.9	3.3	3.2	2.5	4.2	4.1	2	
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Zinc,TCLP	mg/L	---	---	---		0.04	0.048	0.13	0.14	0.037	0.049	0.035	0.11	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 7 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B12 (5-11)	2682-4-B13 (0-5)	2682-4-B13 (5-11)	2682-4-B14A (0-4)	2682-4-B15 (0-5)	2682-4-B15 (5-11)	2682-4-B16 (0-5)	2682-4-B16 (5-11)	
				CCDD	Sample Depth (feet)	(5-11)	(0-5)	(5-11)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	
		mg/kg	Date Collected											
		pH 6.25-9.0		Chicago	MSAs	07/21/2015	07/17/2015	07/17/2015	07/21/2015	07/17/2015	07/17/2015	07/21/2015	07/17/2015	07/21/2015
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0042	<0.0039	<0.0042	<0.0051	0.025	0.025	<0.0065	<0.0048	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.038	<0.037	<0.037	<0.039	<0.038	<0.039	<0.039	
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.038	<0.037	0.034	<0.039	<0.038	0.055	<0.039	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0094	0.019	<0.037	0.099	0.03	<0.038	0.096	0.019	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	0.022	<0.037	0.092	0.034	<0.038	0.086	0.017	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	0.034	<0.037	0.14	0.037	<0.038	0.1	<0.039	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	0.058	<0.037	0.24	0.14	<0.038	0.05	<0.039	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	0.014	<0.037	0.057	0.022	<0.038	0.043	<0.039	
Chrysene	mg/kg	1.2	2.7	88		0.019	0.023	<0.037	0.12	0.037	<0.038	0.089	0.029	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.038	<0.037	<0.037	<0.039	<0.038	<0.039	<0.039	
Fluoranthene	mg/kg	2.7	4.1	3100		0.02	0.022	<0.037	0.2	0.047	<0.038	0.21	0.033	
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.038	<0.037	0.01	<0.039	<0.038	0.015	<0.039	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	0.026	<0.037	0.06	<0.039	<0.038	0.045	0.012	
Phenanthrene	mg/kg	1.3	2.5	210		0.011	0.011	<0.037	0.13	0.032	<0.038	0.17	0.02	
Pyrene	mg/kg	1.9	3.0	2300		0.021	0.033	<0.037	0.18	0.058	<0.038	0.2	0.039	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		5.3	6.2	4.5	7.0	6.8	9.6	8.5	5.8	
Barium	mg/kg	110	110	1500		37	37	30	86	53	67	61	49	
Cadmium	mg/kg	0.6	0.6	5.2		<0.11	<0.12	<0.11	0.049	<0.12	<0.12	<0.12	<0.12	
Chromium, total	mg/kg	16.2	16.2	21		17	14	13	15	17	22	17	20	
Lead	mg/kg	36	36	107		12	13	9.6	31	20	17	22	12	
Mercury	mg/kg	0.06	0.06	0.1		0.012	0.038	<0.019	0.056	0.042	0.048	0.028	0.021	
Selenium	mg/kg	0.48	0.48	1.3		0.44	0.36	0.38	0.57	0.71	0.45	0.82	0.97	
Silver	mg/kg	0.55	0.55	4.4		<0.28	<0.29	<0.28	0.072	<0.29	<0.30	0.071	<0.29	
Antimony	mg/kg	4.0	4.0	5		<1.1	<1.2	0.41	0.38	<1.2	<1.2	0.49	0.3	
Beryllium	mg/kg	0.59	0.59	22		0.61	0.69	0.61	0.67	0.82	0.95	0.67	0.76	
Calcium	mg/kg	9,300	9,300	---		77000	110000	100000	36000	12000	2200	31000	55000	
Cobalt	mg/kg	8.9	8.9	20		7.4	13	16	8.9	13	13	8.9	10	
Copper	mg/kg	19.6	19.6	2900		21	22	18	20	21	23	21	22	
Cyanide	mg/kg	0.51	0.51	---		<0.57	<0.56	<0.55	<0.59	<0.59	<0.58	<0.55	<0.58	
Iron	mg/kg	15,900	15,900	15000		17000	18000	15000	19000	21000	28000	23000	19000	
Magnesium	mg/kg	4,820	4,820	325000		30000	31000	30000	20000	9000	4800	19000	27000	
Manganese	mg/kg	636	636	630		410	520	390	620	340	470	760	430	
Nickel	mg/kg	18	18	100		22	31	29	19	27	41	25	27	
Potassium	mg/kg	1,268	1,268	---		3400	2300	2100	2100	1800	2500	2500	4300	
Sodium	mg/kg	130	130	---		200	1200	180	1200	2700	970	1400	320	
Thallium	mg/kg	0.32	0.32	2.6		<0.56	<0.59	<0.56	<0.58	<0.58	0.29	<0.58	<0.58	
Vanadium	mg/kg	25.2	25.2	550		19	18	16	22	24	29	25	24	
Zinc	mg/kg	95	95	5100		39	50	42	71	72	80	55	39	
pH			6.25	9		8.29	9.24	8.15	8.19	8.14	7.58	8.52	8.19	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 8 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B12 (5-11)	2682-4-B13 (0-5)	2682-4-B13 (5-11)	2682-4-B14A (0-4)	2682-4-B15 (0-5)	2682-4-B15 (5-11)	2682-4-B16 (0-5)	2682-4-B16 (5-11)	
				CCDD	Sample Depth (feet)	(5-11)	(0-5)	(5-11)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	
		mg/kg		Date Collected	07/21/2015	07/17/2015	07/17/2015	07/21/2015	07/17/2015	07/17/2015	07/17/2015	07/17/2015	07/21/2015	07/21/2015
		Chicago	MSAs											
Inorganic Analytical Parameters (SPLP)														
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Arsenic,SPLP	mg/L	---	---	---		0.011	0.054	0.01	0.034	<0.050	0.045	0.034	<0.050	
Barium,SPLP	mg/L	---	---	---		0.42	0.4	0.13	0.74	0.1	0.83	0.75	0.35	
Beryllium,SPLP	mg/L	---	---	---		<0.0040	0.0058	<0.0040	0.0053	<0.0040	0.0098	0.0052	<0.0040	
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	<0.0050	<0.0050	
Calcium,SPLP	mg/L	---	---	---		62	43	23	31	10	25	32	46	
Chromium,SPLP	mg/L	---	---	---		0.045	0.13	0.035	0.13	0.012	0.24	0.12	0.019	
Cobalt,SPLP	mg/L	---	---	---		<0.025	0.035	0.014	0.029	<0.025	0.094	0.024	<0.025	
Copper,SPLP	mg/L	---	---	---		0.051	0.18	0.043	0.11	0.022	0.24	0.11	0.023	
Iron,SPLP	mg/L	---	---	---		33	130	24	110	6.4	240	110	9.1	
Lead,SPLP	mg/L	---	---	---		0.017	0.067	0.014	0.081	0.01	0.14	0.05	<0.0075	
Magnesium,SPLP	mg/L	---	---	---		22	37	16	28	4.4	48	30	11	
Manganese,SPLP	mg/L	---	---	---		0.31	0.67	0.18	0.93	1.1	2.8	0.47	0.12	
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00028	<0.00020	<0.00020	
Nickel,SPLP	mg/L	---	---	---		0.037	0.14	0.039	0.1	<0.025	0.33	0.096	0.013	
Potassium,SPLP	mg/L	---	---	---		13	26	10	24	4.7	37	27	6.1	
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Sodium,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.0028	<0.0020	0.0022	<0.0020	0.0048	0.0021	<0.0020	
Vanadium,SPLP	mg/L	---	---	---		0.05	0.15	0.042	0.17	0.015	0.27	0.15	0.018	
Zinc,SPLP	mg/L	---	---	---		0.31	0.48	0.081	0.61	0.29	0.71	0.57	0.27	
Cyanide,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	
Inorganic Analytical Parameters (TCLP)														
Arsenic,TCLP	mg/L	---	---	---		0.011	<0.050	<0.050	0.011	<0.050	0.011	0.01	<0.050	
Barium,TCLP	mg/L	---	---	---		0.41	0.33	0.47	0.47	0.52	0.21	0.48	0.47	
Cadmium,TCLP	mg/L	---	---	---		0.0025	<0.0050	<0.0050	0.0028	0.002	0.0029	0.0027	0.0026	
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Selenium,TCLP	mg/L	---	---	---		0.022	<0.050	<0.050	0.022	<0.050	<0.050	0.022	0.022	
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	
Calcium,TCLP	mg/L	---	---	---		550	530	460	350	200	46	420	540	
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	0.011	<0.025	0.028	0.013	<0.025	<0.025	
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	0.011	<0.025	<0.025	
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	
Iron,TCLP	mg/L	---	---	---		0.2	<0.20	<0.20	<0.20	0.31	0.22	<0.20	<0.20	
Magnesium,TCLP	mg/L	---	---	---		46	50	68	120	100	16	91	41	
Manganese,TCLP	mg/L	---	---	---		1.4	0.52	1.1	0.68	13	5.8	0.51	1	
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.014	<0.025	0.019	0.02	<0.025	<0.025	
Potassium,TCLP	mg/L	---	---	---		2.9	2.1	3.3	3.4	5.2	2	5.9	3.4	
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Zinc,TCLP	mg/L	---	---	---		0.2	0.16	0.032	0.27	0.083	0.32	0.11	0.2	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 9 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B17 (0-4)	2682-4-B18 (0-5)	2682-4-B18 (5-11)	2682-4-B19 (0-5)	2682-4-B19 (5-11)	2682-4-B20 (0-5)	2682-4-B20 (5-11)	2682-4-B21 (0-5)	
				CCDD	Sample Depth (feet)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	
		mg/kg	Date Collected											
		pH 6.25-9.0		07/20/2015	07/21/2015	07/21/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0049	<0.0050	<0.0044	<0.0048	<0.0057	0.016	<0.0041	<0.0058	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.037	<0.037	<0.038	<0.037	<0.038	0.011	<0.036	<0.040	
Anthracene	mg/kg	0.25	0.4	12000		0.0091	<0.037	<0.038	<0.037	<0.038	0.035	<0.036	0.0081	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.044	<0.037	0.018	<0.037	0.016	0.12	<0.036	0.039	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.04	<0.037	<0.038	<0.037	<0.038	0.14	<0.036	0.037	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.049	<0.037	<0.038	0.013	<0.038	0.22	<0.036	0.059	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.03	<0.037	0.014	<0.037	<0.038	0.11	<0.036	0.028	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.031	<0.037	<0.038	<0.037	<0.038	0.11	<0.036	0.022	
Chrysene	mg/kg	1.2	2.7	88		0.043	<0.037	<0.038	<0.037	<0.038	0.15	<0.036	0.044	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.037	<0.038	<0.037	<0.038	<0.037	<0.036	<0.040	
Fluoranthene	mg/kg	2.7	4.1	3100		0.084	<0.037	0.012	0.011	<0.038	0.24	0.01	0.076	
Fluorene	mg/kg	0.1	0.18	560		<0.037	<0.037	<0.038	<0.037	<0.038	0.016	<0.036	<0.040	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.026	<0.037	<0.038	<0.037	<0.038	0.071	<0.036	0.023	
Phenanthrene	mg/kg	1.3	2.5	210		0.037	<0.037	<0.038	<0.037	0.034	0.16	<0.036	0.039	
Pyrene	mg/kg	1.9	3.0	2300		0.067	<0.037	0.016	0.0094	0.013	0.51	0.0097	0.063	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		5.1	7.1	7.3	11.0	7.5	6.8	5.7	7.2	
Barium	mg/kg	110	110	1500		30	51	54	30	28	87	37	80	
Cadmium	mg/kg	0.6	0.6	5.2		<0.11	<0.11	<0.12	0.081	<0.11	0.27	<0.11	<0.12	
Chromium, total	mg/kg	16.2	16.2	21		16	17	16	12	16	20	16	23	
Lead	mg/kg	36	36	107		10	11	13	14	9.6	57	8.4	19	
Mercury	mg/kg	0.06	0.06	0.1		0.02	0.018	0.02	0.032	0.012	0.079	0.013	0.048	
Selenium	mg/kg	0.48	0.48	1.3		0.54	<0.57	1.3	0.49	0.8	0.6	0.62	0.7	
Silver	mg/kg	0.55	0.55	4.4		<0.27	<0.28	<0.29	<0.28	<0.29	0.11	<0.28	<0.31	
Antimony	mg/kg	4.0	4.0	5		0.49	0.25	<1.2	0.7	<1.1	0.32	0.36	0.56	
Beryllium	mg/kg	0.59	0.59	22		0.6	0.62	0.58	0.47	0.62	0.78	0.6	0.82	
Calcium	mg/kg	9,300	9,300	---		80000	87000	97000	110000	90000	17000	81000	2500	
Cobalt	mg/kg	8.9	8.9	20		7.1	9.8	20	9.5	11	10	9	15	
Copper	mg/kg	19.6	19.6	2900		18	22	22	23	20	25	21	19	
Cyanide	mg/kg	0.51	0.51	---		<0.54	<0.55	<0.52	<0.53	<0.51	<0.56	<0.57	<0.60	
Iron	mg/kg	15,900	15,900	15000		16000	18000	17000	28000	17000	20000	17000	24000	
Magnesium	mg/kg	4,820	4,820	325000		32000	33000	28000	38000	34000	12000	30000	4600	
Manganese	mg/kg	636	636	630		430	650	660	720	450	480	450	700	
Nickel	mg/kg	18	18	100		21	32	30	22	21	21	24	25	
Potassium	mg/kg	1,268	1,268	---		3200	3500	3400	2200	3500	2300	3200	2400	
Sodium	mg/kg	130	130	---		780	1000	420	330	230	1800	260	930	
Thallium	mg/kg	0.32	0.32	2.6		<0.55	<0.57	<0.58	<0.57	<0.57	<0.60	<0.56	<0.61	
Vanadium	mg/kg	25.2	25.2	550		19	20	20	16	27	19	19	29	
Zinc	mg/kg	95	95	5100		45	37	36	81	38	110	38	56	
pH			6.25	9		8.55	8.59	8.42	8.21	7.83	8.46	8.62	8.48	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 10 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B17 (0-4)	2682-4-B18 (0-5)	2682-4-B18 (5-11)	2682-4-B19 (0-5)	2682-4-B19 (5-11)	2682-4-B20 (0-5)	2682-4-B20 (5-11)	2682-4-B21 (0-5)
				CCDD	Sample Depth (feet)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)
		mg/kg	Date Collected	07/20/2015	07/21/2015	07/21/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015
		pH 6.25-9.0											
Inorganic Analytical Parameters (SPLP)													
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.067	0.039	0.03	0.018	<0.050	0.037	0.027	0.064
Barium,SPLP	mg/L	---	---	---		0.76	0.47	0.44	0.47	0.056	0.47	0.5	0.97
Beryllium,SPLP	mg/L	---	---	---		0.0075	0.0049	<0.0040	<0.0040	<0.0040	0.0045	<0.0040	0.0095
Cadmium,SPLP	mg/L	---	---	---		0.0021	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0024
Calcium,SPLP	mg/L	---	---	---		44	69	63	38	7.2	15	54	35
Chromium,SPLP	mg/L	---	---	---		0.18	0.12	0.068	0.062	<0.025	0.099	0.072	0.24
Cobalt,SPLP	mg/L	---	---	---		0.042	0.026	0.016	0.011	<0.025	0.038	0.019	0.047
Copper,SPLP	mg/L	---	---	---		0.19	0.12	0.083	0.071	0.01	0.1	0.088	0.21
Iron,SPLP	mg/L	---	---	---		160	110	60	51	1.1	93	56	210
Lead,SPLP	mg/L	---	---	---		0.074	0.055	0.033	0.02	<0.0075	0.16	0.03	0.088
Magnesium,SPLP	mg/L	---	---	---		44	40	23	20	3.4	18	24	44
Manganese,SPLP	mg/L	---	---	---		0.79	0.4	0.3	0.23	0.01	1.4	0.52	1.1
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.15	0.11	0.069	0.049	<0.025	0.088	0.068	0.2
Potassium,SPLP	mg/L	---	---	---		40	26	18	16	1.2	18	22	34
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Thallium,SPLP	mg/L	---	---	---		0.0033	0.0022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0034
Vanadium,SPLP	mg/L	---	---	---		0.21	0.12	0.076	0.076	<0.025	0.15	0.08	0.28
Zinc,SPLP	mg/L	---	---	---		0.68	0.49	0.35	0.57	0.054	0.56	0.5	0.85
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Inorganic Analytical Parameters (TCLP)													
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	0.61	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.23	0.29	0.47	0.33	0.54	0.74	0.49	0.34
Cadmium,TCLP	mg/L	---	---	---		0.0027	0.006	0.0023	0.0037	0.0037	<0.0050	0.0027	0.0025
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.062	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	0.023	<0.050	<0.050	0.022	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		290	1300	570	420	530	230	560	90
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.02	<0.025	<0.025	0.014	0.18	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	0.015	0.019	0.013	0.013
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	0.25	0.26	0.34	0.35	0.31	0.78
Magnesium,TCLP	mg/L	---	---	---		64	170	30	67	46	59	32	31
Manganese,TCLP	mg/L	---	---	---		0.11	2.2	0.58	0.17	1.1	13	1.8	0.25
Nickel,TCLP	mg/L	---	---	---		<0.025	0.022	<0.025	<0.025	0.026	0.14	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.4	3.8	5.6	0.93	4	4.8	4.6	2.9
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.03	0.14	0.17	0.054	0.2	0.48	0.2	0.19

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 11 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B21 (5-11)	2682-4-B22 (0-4)	2682-4-B22 Dup (0-4)	2682-4-B23 (0-5)	2682-4-B23 (5-11)	2682-4-B24 (0-5)	2682-4-B24 (5-11)	2682-4-B25 (0-4)	
				CCDD	Sample Depth (feet)	(5-11)	(0-4)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	(0-4)	
		mg/kg	Date Collected											
		pH 6.25-9.0		Chicago	MSAs	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/21/2015	07/21/2015	07/20/2015	
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0057	<0.0046	<0.0044	<0.0053	<0.0051	<0.0042	<0.0047	<0.0047	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.037	<0.038	<0.038	<0.039	<0.037	<0.037	<0.037	<0.036	
Anthracene	mg/kg	0.25	0.4	12000		<0.037	0.025	0.009	<0.039	<0.037	<0.037	<0.037	<0.036	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.14	0.06	<0.039	<0.037	<0.037	<0.037	<0.036	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.13	<0.038	<0.039	<0.037	<0.037	<0.037	<0.036	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.16	0.098	<0.039	<0.037	<0.037	<0.037	<0.036	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	0.11	0.058	<0.039	<0.037	<0.037	<0.037	<0.036	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.064	0.061	<0.039	<0.037	<0.037	<0.037	<0.036	
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.17	0.062	<0.039	<0.037	<0.037	<0.037	<0.036	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.038	<0.038	<0.039	<0.037	<0.037	<0.037	<0.036	
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.25	0.073	<0.039	<0.037	<0.037	<0.037	<0.036	
Fluorene	mg/kg	0.1	0.18	560		<0.037	0.0082	<0.038	<0.039	<0.037	<0.037	<0.037	<0.036	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	0.079	<0.038	<0.039	<0.037	<0.037	<0.037	<0.036	
Phenanthrene	mg/kg	1.3	2.5	210		0.012	0.087	0.037	<0.039	<0.037	<0.037	<0.037	<0.036	
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.28	0.23	<0.039	<0.037	<0.037	<0.037	<0.036	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		7.0	5.9	5.7	7.2	4.8	4.8	5.8	5.6	
Barium	mg/kg	110	110	1500		33	34	36	78	24	31	32	41	
Cadmium	mg/kg	0.6	0.6	5.2		<0.11	0.051	<0.12	0.18	<0.11	<0.11	<0.11	<0.11	
Chromium, total	mg/kg	16.2	16.2	21		16	15	16	24	14	16	15	17	
Lead	mg/kg	36	36	107		9.1	20	12	15	8.9	12	12	8.9	
Mercury	mg/kg	0.06	0.06	0.1		0.016	0.027	0.019	0.11	0.047	0.016	0.017	0.025	
Selenium	mg/kg	0.48	0.48	1.3		0.6	0.61	1.3	0.75	0.69	0.36	0.55	0.35	
Silver	mg/kg	0.55	0.55	4.4		<0.28	<0.30	<0.29	<0.29	<0.27	<0.28	<0.28	<0.28	
Antimony	mg/kg	4.0	4.0	5		0.48	0.44	0.55	0.5	0.45	<1.1	0.33	0.44	
Beryllium	mg/kg	0.59	0.59	22		0.62	0.55	0.62	0.88	0.51	0.57	0.58	0.64	
Calcium	mg/kg	9,300	9,300	---		88000	82000	86000	2000	87000	78000	110000	78000	
Cobalt	mg/kg	8.9	8.9	20		10	9.6	6.3	14	6.7	4.7	7.6	9.5	
Copper	mg/kg	19.6	19.6	2900		20	20	22	20	20	20	20	20	
Cyanide	mg/kg	0.51	0.51	---		<0.56	<0.57	<0.60	<0.60	<0.56	<0.56	<0.57	<0.57	
Iron	mg/kg	15,900	15,900	15000		18000	16000	16000	25000	15000	16000	16000	17000	
Magnesium	mg/kg	4,820	4,820	325000		33000	31000	29000	4300	34000	31000	36000	29000	
Manganese	mg/kg	636	636	630		700	520	390	460	470	380	390	480	
Nickel	mg/kg	18	18	100		28	22	19	23	18	19	19	23	
Potassium	mg/kg	1,268	1,268	---		3500	3000	3400	2000	2900	3400	3300	3200	
Sodium	mg/kg	130	130	---		320	690	810	2100	430	420	520	1100	
Thallium	mg/kg	0.32	0.32	2.6		<0.57	<0.59	<0.58	<0.58	<0.55	<0.56	<0.57	<0.55	
Vanadium	mg/kg	25.2	25.2	550		20	18	20	32	17	19	19	20	
Zinc	mg/kg	95	95	5100		39	51	42	52	40	37	36	38	
pH			6.25	9		7.82	8.9	9.08	8.12	8.72	8.49	8.78	8.59	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 12 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B21 (5-11)	2682-4-B22 (0-4)	2682-4-B22 Dup (0-4)	2682-4-B23 (0-5)	2682-4-B23 (5-11)	2682-4-B24 (0-5)	2682-4-B24 (5-11)	2682-4-B25 (0-4)
				CCDD	Sample Depth (feet)	(5-11)	(0-4)	(0-4)	(0-5)	(5-11)	(0-5)	(5-11)	(0-4)
		mg/kg	Date Collected	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/21/2015	07/21/2015	07/20/2015	
		Chicago	MSAs	pH 6.25-9.0									
Inorganic Analytical Parameters (SPLP)													
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	0.057	0.052	0.063	0.038	0.022	0.043	0.04
Barium,SPLP	mg/L	---	---	---		0.3	0.63	0.6	0.95	0.51	0.46	0.52	0.58
Beryllium,SPLP	mg/L	---	---	---		<0.0040	0.0059	0.0058	0.0099	0.0041	<0.0040	0.0043	0.0053
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		29	53	66	30	49	61	43	59
Chromium,SPLP	mg/L	---	---	---		0.011	0.14	0.13	0.24	0.095	0.063	0.093	0.12
Cobalt,SPLP	mg/L	---	---	---		<0.025	0.035	0.034	0.043	0.019	0.012	0.03	0.031
Copper,SPLP	mg/L	---	---	---		0.018	0.17	0.18	0.22	0.13	0.077	0.14	0.15
Iron,SPLP	mg/L	---	---	---		1.3	120	120	210	82	53	94	100
Lead,SPLP	mg/L	---	---	---		<0.0075	0.2	0.099	0.066	0.037	0.03	0.043	0.043
Magnesium,SPLP	mg/L	---	---	---		9.5	36	41	39	33	29	31	39
Manganese,SPLP	mg/L	---	---	---		0.04	0.76	0.67	0.86	0.37	0.32	0.39	0.59
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		<0.025	0.13	0.14	0.21	0.093	0.061	0.11	0.12
Potassium,SPLP	mg/L	---	---	---		4.1	33	32	28	26	16	21	29
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.002	<0.0020	0.0031	<0.0020	<0.0020	0.0024	0.0025
Vanadium,SPLP	mg/L	---	---	---		<0.025	0.16	0.15	0.3	0.1	0.066	0.11	0.13
Zinc,SPLP	mg/L	---	---	---		0.35	0.87	0.67	0.7	0.51	0.39	0.48	0.55
Cyanide,SPLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Inorganic Analytical Parameters (TCLP)													
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.32	0.4	0.35	0.37	0.43	0.37	0.36	0.47
Cadmium,TCLP	mg/L	---	---	---		0.0025	0.0024	0.0022	<0.0050	0.0057	0.0032	0.0028	0.0027
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	0.023	0.021	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		550	530	560	69	1200	600	540	550
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	0.028	<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.01	0.011	0.011	0.018	0.011	<0.025	<0.025	0.013
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Iron,TCLP	mg/L	---	---	---		0.27	0.27	0.26	1.3	0.35	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		46	28	26	14	260	53	45	30
Manganese,TCLP	mg/L	---	---	---		1	0.042	0.22	0.21	3.4	1.1	0.75	0.85
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		3.5	3.4	3.4	2.5	2.5	3.4	2.4	1.7
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.15	0.13	0.12	0.32	0.17	0.14	0.22	0.26

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 13 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B26 (0-5)	2682-4-B26 (5-11)	2682-4-B27 (0-5)	2682-4-B27 (5-11)	2682-4-B28 (0-5)	2682-4-B28 (5-11)	2682-4-B29 (0-5)	2682-4-B29 (5-11)	
				CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015
		pH 6.25-9.0												
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0047	0.0098	0.015	<0.0055	<0.0043	<0.0046	<0.0054	<0.0044	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.040	<0.039	<0.040	<0.037	<0.038	<0.037	<0.040	<0.037	
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.039	0.018	<0.037	<0.038	<0.037	<0.040	<0.037	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.040	<0.039	0.074	<0.037	<0.038	<0.037	0.052	<0.037	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.040	<0.039	0.093	<0.037	<0.038	<0.037	0.058	<0.037	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.040	<0.039	0.15	<0.037	<0.038	<0.037	0.1	<0.037	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.040	<0.039	0.067	<0.037	<0.038	<0.037	0.054	<0.037	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.040	<0.039	0.066	<0.037	<0.038	<0.037	0.048	<0.037	
Chrysene	mg/kg	1.2	2.7	88		<0.040	<0.039	0.11	<0.037	<0.038	<0.037	0.08	<0.037	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	<0.039	<0.040	<0.037	<0.038	<0.037	<0.040	<0.037	
Fluoranthene	mg/kg	2.7	4.1	3100		<0.040	<0.039	0.13	<0.037	<0.038	<0.037	0.11	<0.037	
Fluorene	mg/kg	0.1	0.18	560		<0.040	<0.039	<0.040	<0.037	<0.038	<0.037	<0.040	<0.037	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.040	<0.039	0.061	<0.037	<0.038	<0.037	0.041	<0.037	
Phenanthrene	mg/kg	1.3	2.5	210		<0.040	<0.039	0.081	<0.037	<0.038	<0.037	0.046	<0.037	
Pyrene	mg/kg	1.9	3.0	2300		<0.040	<0.039	0.29	<0.037	<0.038	0.0081	0.095	<0.037	
Inorganic Analytical Parameters														
Arsenic	mg/kg	13	13	11.3		9.0	7.0	7.4	5.4	4.5	5.8	7.5	5.1	
Barium	mg/kg	110	110	1500		110	33	84	31	37	39	81	79	
Cadmium	mg/kg	0.6	0.6	5.2		<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	
Chromium, total	mg/kg	16.2	16.2	21		26	16	25	15	17	16	22	17	
Lead	mg/kg	36	36	107		21	9.9	24	8.5	7.5	8.7	19	8.5	
Mercury	mg/kg	0.06	0.06	0.1		0.034	0.048	<0.018	0.06	0.02	0.027	0.027	0.056	
Selenium	mg/kg	0.48	0.48	1.3		0.61	0.41	0.68	0.45	0.5	0.47	0.48	0.67	
Silver	mg/kg	0.55	0.55	4.4		<0.30	<0.29	0.12	<0.29	<0.28	<0.28	<0.31	0.089	
Antimony	mg/kg	4.0	4.0	5		0.64	0.4	<1.2	0.39	0.26	0.45	0.49	0.5	
Beryllium	mg/kg	0.59	0.59	22		0.96	0.58	0.94	0.56	0.61	0.59	0.9	0.62	
Calcium	mg/kg	9,300	9,300	---		2800	85000	13000	89000	90000	75000	5200	80000	
Cobalt	mg/kg	8.9	8.9	20		14	5	12	6	5.8	12	12	8.2	
Copper	mg/kg	19.6	19.6	2900		31	25	24	21	16	19	26	19	
Cyanide	mg/kg	0.51	0.51	---		<0.59	<0.58	<0.62	<0.57	<0.55	<0.58	<0.56	<0.48	
Iron	mg/kg	15,900	15,900	15000		28000	18000	24000	16000	16000	16000	23000	16000	
Magnesium	mg/kg	4,820	4,820	325000		5900	33000	12000	32000	27000	31000	6600	29000	
Manganese	mg/kg	636	636	630		540	380	370	420	330	480	730	450	
Nickel	mg/kg	18	18	100		35	20	32	19	19	25	38	25	
Potassium	mg/kg	1,268	1,268	---		3100	3100	3500	3100	3300	3300	2300	3400	
Sodium	mg/kg	130	130	---		1800	300	2200	530	230	260	1400	450	
Thallium	mg/kg	0.32	0.32	2.6		<0.60	<0.57	<0.62	<0.58	<0.55	<0.56	<0.61	<0.58	
Vanadium	mg/kg	25.2	25.2	550		31	19	29	18	19	24	24	20	
Zinc	mg/kg	95	95	5100		59	42	59	36	35	36	49	37	
pH			6.25	9		8.09	8.45	7.88	8.68	8.45	8.39	8.58	8.47	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 14 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B26 (0-5)	2682-4-B26 (5-11)	2682-4-B27 (0-5)	2682-4-B27 (5-11)	2682-4-B28 (0-5)	2682-4-B28 (5-11)	2682-4-B29 (0-5)	2682-4-B29 (5-11)	
				CCDD	Sample Depth (feet)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)	(5-11)	(0-5)
		mg/kg	Date Collected	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015	07/20/2015
		pH 6.25-9.0												
Inorganic Analytical Parameters (SPLP)														
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Arsenic,SPLP	mg/L	---	---	---		0.074	0.06	0.088	0.03	0.016	<0.050	0.068	0.039	
Barium,SPLP	mg/L	---	---	---		0.93	0.53	1.3	0.61	0.44	0.38	0.92	0.67	
Beryllium,SPLP	mg/L	---	---	---		0.0096	0.0065	0.011	0.0041	<0.0040	<0.0040	0.011	0.0054	
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	0.0035	<0.0050	<0.0050	<0.0050	0.002	<0.0050	
Calcium,SPLP	mg/L	---	---	---		20	58	38	61	49	30	37	61	
Chromium,SPLP	mg/L	---	---	---		0.24	0.15	0.26	0.096	0.065	0.032	0.22	0.12	
Cobalt,SPLP	mg/L	---	---	---		0.054	0.043	0.085	0.019	0.012	<0.025	0.058	0.029	
Copper,SPLP	mg/L	---	---	---		0.23	0.18	0.29	0.12	0.069	0.036	0.23	0.13	
Iron,SPLP	mg/L	---	---	---		220	140	240	75	48	18	200	95	
Lead,SPLP	mg/L	---	---	---		0.081	0.066	0.23	0.037	0.019	0.0085	0.23	0.037	
Magnesium,SPLP	mg/L	---	---	---		45	45	49	34	24	16	43	43	
Manganese,SPLP	mg/L	---	---	---		1.1	0.79	3.2	0.38	0.22	0.14	1.2	0.44	
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Nickel,SPLP	mg/L	---	---	---		0.22	0.16	0.27	0.086	0.053	0.025	0.23	0.11	
Potassium,SPLP	mg/L	---	---	---		35	34	44	26	17	10	35	32	
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Thallium,SPLP	mg/L	---	---	---		0.0037	0.0021	0.0043	<0.0020	<0.0020	<0.0020	0.0036	0.0034	
Vanadium,SPLP	mg/L	---	---	---		0.28	0.17	0.33	0.1	0.074	0.032	0.27	0.13	
Zinc,SPLP	mg/L	---	---	---		0.5	0.41	0.77	0.66	0.36	0.43	0.74	0.51	
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Inorganic Analytical Parameters (TCLP)														
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	0.011	<0.050	<0.050	<0.050	<0.050	<0.050	
Barium,TCLP	mg/L	---	---	---		0.45	0.55	0.72	0.45	0.42	0.68	0.43	0.68	
Cadmium,TCLP	mg/L	---	---	---		0.0024	0.0028	0.0043	0.0055	0.0023	0.003	0.0038	0.005	
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	0.011	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	
Calcium,TCLP	mg/L	---	---	---		84	550	230	1200	600	520	320	1200	
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	0.034	0.03	<0.025	<0.025	<0.025	0.022	
Copper,TCLP	mg/L	---	---	---		0.015	0.011	0.015	<0.025	0.01	0.011	0.011	<0.025	
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Iron,TCLP	mg/L	---	---	---		1.2	0.43	0.31	<0.20	0.32	<0.20	<0.20	<0.20	
Magnesium,TCLP	mg/L	---	---	---		32	39	68	240	34	54	95	220	
Manganese,TCLP	mg/L	---	---	---		0.48	1	16	3.3	0.13	0.79	3.8	2.6	
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.027	0.035	<0.025	<0.025	0.011	0.025	
Potassium,TCLP	mg/L	---	---	---		2.9	2.7	3.1	1.9	2	3.2	1.9	1.7	
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Zinc,TCLP	mg/L	---	---	---		0.17	0.15	0.26	0.13	0.14	0.19	0.14	0.16	

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 15 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B30 (0-4)	2682-4-B30 Dup (0-4)	2682-4-B31 (0-4)
				CCDD	Sample Depth (feet)	(0-4)	(0-4)	(0-4)
		mg/kg	MSAs	pH 6.25-9.0	Date Collected	07/20/2015	07/20/2015	07/20/2015
		Chicago						
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		0.0061	<0.0043	<0.0052
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.036	<0.036
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.036	<0.036
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.036	0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.036	0.053
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	<0.036	0.088
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	<0.036	<0.036
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.036	0.044
Chrysene	mg/kg	1.2	2.7	88		<0.038	<0.036	0.057
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.036	<0.036
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	<0.036	0.063
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.036	<0.036
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	<0.036	<0.036
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	<0.036	0.024
Pyrene	mg/kg	1.9	3.0	2300		<0.038	<0.036	0.17
Inorganic Analytical Parameters								
Arsenic	mg/kg	13	13	11.3		5.3	6.4	7.3
Barium	mg/kg	110	110	1500		38	46	39
Cadmium	mg/kg	0.6	0.6	5.2		0.28	0.42	0.33
Chromium, total	mg/kg	16.2	16.2	21		15	15	14
Lead	mg/kg	36	36	107		8.8	8.7	31
Mercury	mg/kg	0.06	0.06	0.1		0.013	0.018	0.019
Selenium	mg/kg	0.48	0.48	1.3		0.43	0.29	0.46
Silver	mg/kg	0.55	0.55	4.4		<0.28	<0.28	<0.28
Antimony	mg/kg	4.0	4.0	5		0.46	0.43	0.39
Beryllium	mg/kg	0.59	0.59	22		0.7	0.71	0.66
Calcium	mg/kg	9,300	9,300	---		81000	90000	91000
Cobalt	mg/kg	8.9	8.9	20		11	8	10
Copper	mg/kg	19.6	19.6	2900		20	19	22
Cyanide	mg/kg	0.51	0.51	---		<0.57	<0.57	<0.58
Iron	mg/kg	15,900	15,900	15000		17000	18000	17000
Magnesium	mg/kg	4,820	4,820	325000		27000	26000	28000
Manganese	mg/kg	636	636	630		360	390	440
Nickel	mg/kg	18	18	100		27	25	25
Potassium	mg/kg	1,268	1,268	---		2300	2200	2000
Sodium	mg/kg	130	130	---		510	640	1100
Thallium	mg/kg	0.32	0.32	2.6		1.2	1.2	0.96
Vanadium	mg/kg	25.2	25.2	550		19	20	20
Zinc	mg/kg	95	95	5100		63	54	66
pH			6.25	9		8.8	8.75	8.58

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-4)
Northbrook, IL
Terracon Project No. 11157102
Page 16 of 16

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-4-B30 (0-4)	2682-4-B30 Dup (0-4)	2682-4-B31 (0-4)	
				CCDD	Sample Depth (feet)	(0-4)	(0-4)	(0-4)	
		Chicago		MSAs	mg/kg pH 6.25-9.0	Date Collected	07/20/2015	07/20/2015	07/20/2015
Inorganic Analytical Parameters (SPLP)									
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	
Arsenic,SPLP	mg/L	---	---	---		0.026	0.013	0.023	
Barium,SPLP	mg/L	---	---	---		0.39	0.24	0.32	
Beryllium,SPLP	mg/L	---	---	---		0.0046	<0.0040	<0.0040	
Cadmium,SPLP	mg/L	---	---	---		0.0036	0.003	0.0033	
Calcium,SPLP	mg/L	---	---	---		58	49	52	
Chromium,SPLP	mg/L	---	---	---		0.099	0.061	0.083	
Cobalt,SPLP	mg/L	---	---	---		0.042	0.012	0.021	
Copper,SPLP	mg/L	---	---	---		0.17	0.078	0.12	
Iron,SPLP	mg/L	---	---	---		100	55	78	
Lead,SPLP	mg/L	---	---	---		0.07	<0.038	0.092	
Magnesium,SPLP	mg/L	---	---	---		37	23	26	
Manganese,SPLP	mg/L	---	---	---		0.66	0.29	0.45	
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	
Nickel,SPLP	mg/L	---	---	---		0.16	0.066	0.098	
Potassium,SPLP	mg/L	---	---	---		23	15	21	
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	
Sodium,SPLP	mg/L	---	---	---		----	----	----	
Thallium,SPLP	mg/L	---	---	---		0.0028	<0.0020	<0.0020	
Vanadium,SPLP	mg/L	---	---	---		0.11	0.075	0.11	
Zinc,SPLP	mg/L	---	---	---		0.35	0.18	0.33	
Cyanide,SPLP	mg/L	---	---	---		----	----	----	
Inorganic Analytical Parameters (TCLP)									
Arsenic,TCLP	mg/L	---	---	---		<0.050	0.011	<0.050	
Barium,TCLP	mg/L	---	---	---		0.33	0.32	0.37	
Cadmium,TCLP	mg/L	---	---	---		0.0031	0.0055	0.0025	
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	
Selenium,TCLP	mg/L	---	---	---		<0.050	0.021	<0.050	
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	
Calcium,TCLP	mg/L	---	---	---		540	1300	530	
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.015	<0.025	
Copper,TCLP	mg/L	---	---	---		0.01	0.015	0.018	
Cyanide,TCLP	mg/L	---	---	---		----	----	----	
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	
Magnesium,TCLP	mg/L	---	---	---		34	150	23	
Manganese,TCLP	mg/L	---	---	---		1.2	2.7	0.013	
Nickel,TCLP	mg/L	---	---	---		<0.025	0.023	<0.025	
Potassium,TCLP	mg/L	---	---	---		1.2	1.2	2.4	
Sodium,TCLP	mg/L	---	---	---		----	----	----	
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	
Zinc,TCLP	mg/L	---	---	---		<0.10	0.13	0.044	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
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2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-98751-1
Client Project/Site: IDOT - Northbrook - WO 002

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
7/30/2015 4:30:23 PM

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

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

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

1

2

3

4

5

6

7

8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Sample Summary	29
Client Sample Results	30
Definitions	160
Chain of Custody	161
Receipt Checklists	162

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Job ID: 500-98751-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98751-1

Receipt

The samples were received on 7/18/2015 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.3° C and 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batches 296607 and 296812 recovered outside control limits for one or more of the following analytes: Bromomethane and Tetrachloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples had 2,4,6-Tribromophenol biased low. All other surrogate recoveries for these samples were within limits. 2682-2-B02 (0-2) (500-98751-1), 2682-2-B02 DUP (0-2) (500-98751-2), 2682-4-B01 (0-5) (500-98751-3), 2682-4-B01 (5-11) (500-98751-4), 2682-4-B02 (0-5) (500-98751-5), 2682-4-B02 (5-11) (500-98751-6), 2682-4-B03 (0-5) (500-98751-7), 2682-4-B03 (5-11) (500-98751-8), 2682-4-B05 (0-5) (500-98751-9), 2682-4-B05 (5-11) (500-98751-10), 2682-4-B07 (0-5) (500-98751-11), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (5-11) (500-98751-21) and (500-98751-E-1-G MSD). 500-98751-1MS had Phenol-d5 biased low. All other surrogate recoveries for this sample were within limits. No further action was required.

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 500-296798 had 3 known poor performing analytes outside control limits: 4,6-Dinitro-2-methylphenol; 2,4-Dinitrophenol and Pentachlorophenol. These results have been reported and qualified. (LCS 500-296798/2-A) and (LCSD 500-296798/3-A)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-296798 recovered outside control limits (20%) for the following analytes: 4,6-Dinitro-2-methylphenol (28%); 2,4-Dinitrophenol (200%); and Pentachlorophenol (97%). The LCSD was within limits for these analytes, with the exception of Pentachlorophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the abundance of target and non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The initial calibration verification (ICV) was slightly outside of the method control limits for Sodium, at 111%rec., associated with the samples 2682-4-B07 (5-11) (500-98751-12), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (0-5) (500-98751-18), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (0-5) (500-98751-20) and 2682-4-B15 (5-11) (500-98751-21). The continuing calibration verifications (CCV), laboratory control sample (LCS), and all other QC was within the control limits, therefore the data has been reported.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B15 (5-11) (500-98751-21). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Job ID: 500-98751-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

Method(s) 7470A: The laboratory control sample (LCS) for batch 296658 recovered outside control limits for the following analytes: Hg. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.41	J F1	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13	F1	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	F1	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	F1	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12	F1	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25	F1	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1	0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	3800		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	530	F2	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.96	F1	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29	F1	0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	F1	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.23		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	63		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.72	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.6	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.068	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.062		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	6.67		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	19000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.60	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2) (Continued)

Lab Sample ID: 500-98751-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	1.1		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	3500		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	710		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.096	J	0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	53	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	60		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	15		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J B	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	25		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	19		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	7.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.078	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.00		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0042	0.0033	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.55	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5) (Continued)

Lab Sample ID: 500-98751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.71		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	46	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.97		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	32		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	34		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.023		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.11		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0043	0.0033	mg/Kg	1	☼	8260B	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11) (Continued)

Lab Sample ID: 500-98751-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.4		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	490		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	40	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.88		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.028	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	62		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.42		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9500		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.84	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5) (Continued)

Lab Sample ID: 500-98751-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Beryllium	0.60		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.19		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.54	0.093	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.0		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	9.1		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	34000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	78000		110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	390		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.38	J	0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Silver	0.066	J	0.27	0.064	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.1		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1		☼	6010B	Total/NA
Zinc	42	B	1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	290		54	7.2	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.91		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	580		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.8	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.024	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	56		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.027	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	59		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.085		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	71		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.031		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.082		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.094		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.014	J	0.018	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0071		0.0041	0.0032	mg/Kg	1		☼	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	1		☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11) (Continued)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA	
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA	
Antimony	0.33	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	4.8		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA	
Barium	32		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.61		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.15		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA	
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	5.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA	
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA	
Lead	8.9		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA	
Calcium	77000		110	37	mg/Kg	10	☼	6010B	Total/NA	
Manganese	380		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	18		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.48	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Thallium	1.2		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA	
Zinc	42	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA	
Potassium	3000		28	4.6	mg/Kg	1	☼	6010B	Total/NA	
Sodium	240		57	7.5	mg/Kg	1	☼	6010B	Total/NA	
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP	
Arsenic	0.014	J	0.050	0.010	mg/L	1		6010B	TCLP	
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	580		2.5	0.50	mg/L	1		6010B	TCLP	
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP	
Magnesium	41		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.76		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	3.1	B	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.057	J	0.10	0.020	mg/L	1		6010B	TCLP	
Aluminum	45		0.20	0.20	mg/L	1		6010B	SPLP East	
Arsenic	0.030	J	0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	SPLP East	
Calcium	57		2.5	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.069		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.092		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	61		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.066		0.025	0.010	mg/L	1		6010B	SPLP East	
Potassium	17		2.5	0.50	mg/L	1		6010B	SPLP East	
Vanadium	0.081		0.025	0.010	mg/L	1		6010B	SPLP East	
Zinc	0.53		0.10	0.020	mg/L	1		6010B	SPLP East	
Mercury	0.029		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA	
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.033	J	0.038	0.0064	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.49		0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.78		0.038	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.0087	J	0.038	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.90		0.038	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	6.3		0.58	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.051	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.034	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	19		0.58	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.066	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	16		0.58	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	24000		5.8	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	44000		12	3.8	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	570		0.58	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	18		0.58	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.77		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	50	B	1.2	0.37	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	2200		58	7.7	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	0.98		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.3	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	97		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.042	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.32	J	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.032		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5) (Continued)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.068		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.91		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	9.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0056		0.0036	0.0028	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.051		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9400		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.53	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	540		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11) (Continued)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.7		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.4		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.3		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.28		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.081		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.35		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.70		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.76		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Aluminum	4600		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.3		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	54		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.42	J	1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.43	J B	0.56	0.16	mg/Kg	5	☼	6010B	Total/NA
Chromium	10		2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	3.3		1.4	0.32	mg/Kg	5	☼	6010B	Total/NA
Copper	12		2.8	0.61	mg/Kg	5	☼	6010B	Total/NA
Iron	9300		56	22	mg/Kg	5	☼	6010B	Total/NA
Lead	16		1.4	0.70	mg/Kg	5	☼	6010B	Total/NA
Magnesium	62000		28	11	mg/Kg	5	☼	6010B	Total/NA
Calcium	160000		56	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	470		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	10		2.8	0.76	mg/Kg	5	☼	6010B	Total/NA
Vanadium	15		1.4	0.41	mg/Kg	5	☼	6010B	Total/NA
Zinc	37	B	5.6	1.8	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5) (Continued)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	910		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.47		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	2.9		0.20	0.20	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.2		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.076	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.044		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.50		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000	B	12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.3		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11) (Continued)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	210		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.44	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.4		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.1		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	5.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.053	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.99		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.086		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.089		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	16000	B	12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.66	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5) (Continued)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	25000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	7900		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	7800		12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	600		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	1.6		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.6		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	32		0.30	0.087	mg/Kg	1		☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	2800		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	2100		59	7.8	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	4.7	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.085	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	12		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.019	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.14	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.021	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.036		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	7.7		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	6.8		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.068		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.012	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	6.1		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1		☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.018	J	0.036	0.0098	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	1		☼	8270D	Total/NA
Aluminum	9300		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.33	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.1		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	25		0.54	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11) (Continued)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.12	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	530		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	430	^	54	7.2	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	86		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.093	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	31		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.022	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.075		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	41		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.026		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018		0.016	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5) (Continued)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.033	J	0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.042		0.040	0.0081	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	13000		12	3.0	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.29	J	1.2	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	7.3		0.60	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.052	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.035	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	15		0.30	0.068	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	19		0.60	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	44		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	11000		6.0	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	17000		12	3.9	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	950		0.60	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	23		0.60	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.52	J	0.60	0.30	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	26		0.30	0.088	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1600		30	4.9	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	1600	^	60	7.9	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.30	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.040	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.055		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.73		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0080		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.67		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0032		0.0020	0.0020	mg/L	1			6020A	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5) (Continued)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.055		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	590	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.048	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	91		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0057		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	81		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.055		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.011	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.058		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.066		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	14000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	^	60	8.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	100		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.083		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5) (Continued)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.051		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0092		0.0042	0.0032	mg/Kg	1	☼	8260B	Total/NA
Aluminum	10000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	820	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	98		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	67		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.077		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11) (Continued)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.45		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0045		0.0044	0.0034	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9800		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	470	^	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	16		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.093	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0087		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11) (Continued)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.051	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	^	59	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	95		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.054		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5) (Continued)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.067		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.48		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.018	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	9.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9100		11	2.8	mg/Kg	1	✳	6010B	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.5		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Barium	30		0.56	0.10	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.56	0.097	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.28	0.064	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.56	0.12	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	4.3	mg/Kg	1	✳	6010B	Total/NA
Lead	9.6		0.28	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	✳	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10	✳	6010B	Total/NA
Manganese	390		0.56	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.38	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.28	0.082	mg/Kg	1	✳	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		28	4.6	mg/Kg	1	✳	6010B	Total/NA
Sodium	180	^	56	7.4	mg/Kg	1	✳	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11) (Continued)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.081	J	0.10	0.020	mg/L	1		6010B	SPLP East
pH	8.15		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0045	0.0035	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.037	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.058		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700	^	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.5		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5) (Continued)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	8.1		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	6.4		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.042		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0055	0.0042	mg/Kg	1	☼	8260B	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.95		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	970	^	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	46		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11) (Continued)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.83		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0098		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0051		0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	48		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.71		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.048		0.018	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	7.58		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0050	0.0013	mg/L	1		8260B	Total/NA
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L	1		8270D	Total/NA
Chrysene	0.0016		0.00037	0.000050	mg/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L	1		8270D	Total/NA
Fluoranthene	0.0022		0.00074	0.00033	mg/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L	1		8270D	Total/NA
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L	1		8270D	Total/NA
Pyrene	0.0018		0.00074	0.00031	mg/L	1		8270D	Total/NA
Aluminum	140		0.50	0.27	mg/L	5		6020A	Total Recoverable
Arsenic	0.23		0.0050	0.0022	mg/L	5		6020A	Total Recoverable
Barium	1.1		0.013	0.0042	mg/L	5		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01 (Continued)

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.012		0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Cadmium	0.0073		0.0025	0.00095	mg/L	5		6020A	Total Recoverable
Calcium	840	B	1.0	0.53	mg/L	5		6020A	Total Recoverable
Chromium	0.11		0.025	0.0030	mg/L	5		6020A	Total Recoverable
Cobalt	0.15		0.0050	0.00095	mg/L	5		6020A	Total Recoverable
Copper	0.83		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	140		0.50	0.13	mg/L	5		6020A	Total Recoverable
Lead	0.62		0.0025	0.00071	mg/L	5		6020A	Total Recoverable
Magnesium	380		2.0	0.83	mg/L	10		6020A	Total Recoverable
Manganese	1.9		0.013	0.0050	mg/L	5		6020A	Total Recoverable
Nickel	0.45		0.010	0.0026	mg/L	5		6020A	Total Recoverable
Potassium	28		2.5	0.95	mg/L	5		6020A	Total Recoverable
Selenium	0.017		0.013	0.0042	mg/L	5		6020A	Total Recoverable
Silver	0.0020		0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	95		0.20	0.088	mg/L	1		6020A	Total Recoverable
Thallium	0.017		0.010	0.0030	mg/L	5		6020A	Total Recoverable
Vanadium	0.25		0.025	0.011	mg/L	5		6020A	Total Recoverable
Zinc	2.4	B	0.10	0.023	mg/L	5		6020A	Total Recoverable

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98751-1	2682-2-B02 (0-2)	Solid	07/17/15 09:55	07/18/15 08:00
500-98751-2	2682-2-B02 DUP (0-2)	Solid	07/17/15 10:05	07/18/15 08:00
500-98751-3	2682-4-B01 (0-5)	Solid	07/17/15 08:45	07/18/15 08:00
500-98751-4	2682-4-B01 (5-11)	Solid	07/17/15 09:00	07/18/15 08:00
500-98751-5	2682-4-B02 (0-5)	Solid	07/17/15 09:15	07/18/15 08:00
500-98751-6	2682-4-B02 (5-11)	Solid	07/17/15 09:25	07/18/15 08:00
500-98751-7	2682-4-B03 (0-5)	Solid	07/17/15 10:30	07/18/15 08:00
500-98751-8	2682-4-B03 (5-11)	Solid	07/17/15 10:40	07/18/15 08:00
500-98751-9	2682-4-B05 (0-5)	Solid	07/17/15 11:05	07/18/15 08:00
500-98751-10	2682-4-B05 (5-11)	Solid	07/17/15 11:15	07/18/15 08:00
500-98751-11	2682-4-B07 (0-5)	Solid	07/17/15 11:45	07/18/15 08:00
500-98751-12	2682-4-B07 (5-11)	Solid	07/17/15 11:55	07/18/15 08:00
500-98751-13	2682-4-B09 (0-5)	Solid	07/17/15 12:20	07/18/15 08:00
500-98751-14	2682-4-B09 (5-11)	Solid	07/17/15 12:30	07/18/15 08:00
500-98751-15	2682-4-B11 (0-5)	Solid	07/17/15 12:55	07/18/15 08:00
500-98751-16	2682-4-B11 (5-11)	Solid	07/17/15 13:15	07/18/15 08:00
500-98751-17	2682-4-B11 DUP (5-11)	Solid	07/17/15 13:25	07/18/15 08:00
500-98751-18	2682-4-B13 (0-5)	Solid	07/17/15 14:00	07/18/15 08:00
500-98751-19	2682-4-B13 (5-11)	Solid	07/17/15 14:10	07/18/15 08:00
500-98751-20	2682-4-B15 (0-5)	Solid	07/17/15 14:35	07/18/15 08:00
500-98751-21	2682-4-B15 (5-11)	Solid	07/17/15 14:45	07/18/15 08:00
500-98751-22	2682-4-G01	Water	07/17/15 15:20	07/18/15 08:00
500-98751-23	TRIP BLANK	Water	07/17/15 00:00	07/18/15 08:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.23		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Barium	0.25	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:57	1
Calcium	63		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 16:57	1
Magnesium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Manganese	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Potassium	0.72	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:57	1
Zinc	0.027	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:47	1
Calcium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Chromium	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Copper	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Iron	18		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:47	1
Magnesium	7.6	F1	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Manganese	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Nickel	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Potassium	4.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Vanadium	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:47	1
Zinc	0.068	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:47	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		07/26/15 17:40	07/27/15 19:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 14:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.67		0.200	0.200	SU	-		07/23/15 10:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0040	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/18/15 09:50	07/22/15 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/22/15 17:54	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 17:54	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/22/15 17:54	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041	F1	0.041	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Acenaphthylene	<0.041	F1	0.041	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-chloroethoxy)methane	<0.21	F1 F2	0.21	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-chloroethyl)ether	<0.21	F2	0.21	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chloro-3-methylphenol	<0.41	F1 F2	0.41	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Chloronaphthalene	<0.21	F1 F2	0.21	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Chlorophenol	<0.21	F1 F2	0.21	0.071	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,2-Dichlorobenzene	<0.21	F1 F2	0.21	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,3-Dichlorobenzene	<0.21	F1	0.21	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,4-Dichlorobenzene	<0.21	F1 F2	0.21	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dichlorophenol	<0.41	F1	0.41	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dimethylphenol	<0.41	F1	0.41	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Dimethyl phthalate	<0.21	F1	0.21	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4,6-Dinitro-2-methylphenol	<0.41	F1	0.41	0.33	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dinitrophenol	<0.83	F1	0.83	0.73	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachlorocyclopentadiene	<0.83	F1	0.83	0.24	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Hexachloroethane	<0.21	F1	0.21	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Methylnaphthalene	<0.041	F1 F2	0.041	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Methylphenol	<0.21	F1	0.21	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Naphthalene	<0.041	F1	0.041	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2-Nitrophenol	<0.41	F1	0.41	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
N-Nitrosodi-n-propylamine	<0.21	F2	0.21	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,2'-oxybis[1-chloropropane]	<0.21	F2	0.21	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Pentachlorophenol	<0.83	F1	0.83	0.66	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Phenol	<0.21	F1 F2	0.21	0.092	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
1,2,4-Trichlorobenzene	<0.21	F1	0.21	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/28/15 11:23	1
2-Fluorophenol	49		25 - 110	07/23/15 07:27	07/28/15 11:23	1
Nitrobenzene-d5	44		25 - 115	07/23/15 07:27	07/28/15 11:23	1
Phenol-d5	47		31 - 110	07/23/15 07:27	07/28/15 11:23	1
Terphenyl-d14	73		36 - 134	07/23/15 07:27	07/28/15 11:23	1
2,4,6-Tribromophenol	28	X	35 - 137	07/23/15 07:27	07/28/15 11:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Antimony	0.41	J F1	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Arsenic	13	F1	0.59	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Barium	120		0.59	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Beryllium	1.0		0.24	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Cadmium	0.18	F1	0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Chromium	20	F1	0.59	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Cobalt	12	F1	0.29	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Copper	25	F1	0.59	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Iron	28000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Lead	15	F1	0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Magnesium	3600		5.9	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Calcium	3800		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Manganese	530	F2	0.59	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Nickel	26		0.59	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Selenium	0.96	F1	0.59	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 00:37	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Thallium	1.4		0.59	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Vanadium	29	F1	0.29	0.086	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Zinc	58	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Potassium	1300	F1	29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1
Sodium	240		59	7.8	mg/Kg	☼	07/21/15 18:01	07/23/15 18:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.020	0.0069	mg/Kg	☼	07/23/15 16:00	07/27/15 16:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 (0-2)

Lab Sample ID: 500-98751-1

Date Collected: 07/17/15 09:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 78.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	07/23/15 16:00	07/23/15 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:02	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:02	1
Calcium	60		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:02	1
Magnesium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Manganese	0.033		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Potassium	0.90	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:02	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:14	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:14	1
Calcium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Chromium	0.031		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Copper	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Iron	19		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:14	1
Magnesium	7.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Manganese	0.098		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Nickel	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Potassium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:14	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Vanadium	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:14	1
Zinc	0.078	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:14	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		07/26/15 17:40	07/27/15 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.00		0.200	0.200	SU	-		07/23/15 10:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/22/15 18:18	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/22/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 18:18	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/23/15 07:27	07/28/15 11:49	1
2-Fluorophenol	58		25 - 110	07/23/15 07:27	07/28/15 11:49	1
Nitrobenzene-d5	54		25 - 115	07/23/15 07:27	07/28/15 11:49	1
Phenol-d5	57		31 - 110	07/23/15 07:27	07/28/15 11:49	1
Terphenyl-d14	86		36 - 134	07/23/15 07:27	07/28/15 11:49	1
2,4,6-Tribromophenol	32	X	35 - 137	07/23/15 07:27	07/28/15 11:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19000		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Antimony	0.60	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Arsenic	7.6		0.57	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Barium	130		0.57	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Beryllium	1.1		0.23	0.050	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Cadmium	0.10	J	0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Chromium	26		0.57	0.098	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Cobalt	11		0.29	0.065	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Copper	24		0.57	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Iron	28000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Lead	15		0.29	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Magnesium	4500		5.7	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Calcium	3500		11	3.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Manganese	710		0.57	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Nickel	25		0.57	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Selenium	0.45	J	0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:07	1
Silver	0.096	J	0.29	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Thallium	2.0		0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Vanadium	33		0.29	0.084	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Zinc	53	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Potassium	1500		29	4.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1
Sodium	260		57	7.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 10:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-2-B02 DUP (0-2)

Lab Sample ID: 500-98751-2

Date Collected: 07/17/15 10:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Calcium	400		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:07	1
Magnesium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Manganese	2.3		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Nickel	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Potassium	2.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Zinc	0.030	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Arsenic	0.013	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Chromium	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Copper	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Iron	34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Lead	0.023		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:21	1
Magnesium	13		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Manganese	0.36		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Nickel	0.045		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Potassium	11		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Vanadium	0.056		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Zinc	0.11		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	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		07/26/15 17:40	07/27/15 19:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromomethane	<0.0042 *		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/22/15 18:43	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/18/15 09:50	07/22/15 18:43	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/22/15 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/28/15 12:14	1
2-Fluorophenol	50		25 - 110	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene-d5	45		25 - 115	07/23/15 07:27	07/28/15 12:14	1
Phenol-d5	48		31 - 110	07/23/15 07:27	07/28/15 12:14	1
Terphenyl-d14	66		36 - 134	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Tribromophenol	16	X	35 - 137	07/23/15 07:27	07/28/15 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Antimony	0.55	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Arsenic	7.1		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Barium	46		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Beryllium	0.71		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Chromium	18		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Iron	20000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Lead	14		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Calcium	50000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Manganese	590		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Selenium	0.47	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Vanadium	23		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Zinc	46	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Potassium	2600		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Sodium	400		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (0-5)

Date Collected: 07/17/15 08:45

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-3

Matrix: Solid

Percent Solids: 82.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.88		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Calcium	590		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:36	1
Magnesium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Manganese	0.77		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Zinc	0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Arsenic	0.028	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Chromium	0.067		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Copper	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Iron	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Lead	0.030		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:28	1
Magnesium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Manganese	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Nickel	0.073		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Vanadium	0.076		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Zinc	0.42		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	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		07/26/15 17:40	07/27/15 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromomethane	<0.0043 *		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:07	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 19:07	1
Toluene-d8 (Surr)	98		75 - 122	07/18/15 09:50	07/22/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	07/23/15 07:27	07/28/15 12:41	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene-d5	47		25 - 115	07/23/15 07:27	07/28/15 12:41	1
Phenol-d5	50		31 - 110	07/23/15 07:27	07/28/15 12:41	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 07:27	07/28/15 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Antimony	0.35	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Barium	34		0.56	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Chromium	17		0.56	0.097	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Copper	20		0.56	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Lead	9.4		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Magnesium	32000		5.6	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Calcium	77000		110	36	mg/Kg	☼	07/21/15 18:01	07/25/15 01:22	10
Manganese	490		0.56	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Nickel	24		0.56	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Selenium	0.49	J	0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Thallium	1.3		0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Zinc	40	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Potassium	3100		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Sodium	210		56	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:41	1
Magnesium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Manganese	0.37		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Potassium	2.8	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Zinc	0.024	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	56		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Arsenic	0.027	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Barium	0.28	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Calcium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Chromium	0.085		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Copper	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Iron	71		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Lead	0.031		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:34	1
Magnesium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Manganese	0.35		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Nickel	0.082		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Potassium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Vanadium	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	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		07/26/15 17:40	07/27/15 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU	-		07/23/15 11:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/22/15 19:31	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:31	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	07/23/15 07:27	07/28/15 13:07	1
2-Fluorophenol	55		25 - 110	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene-d5	54		25 - 115	07/23/15 07:27	07/28/15 13:07	1
Phenol-d5	47		31 - 110	07/23/15 07:27	07/28/15 13:07	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Tribromophenol	23	X	35 - 137	07/23/15 07:27	07/28/15 13:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	2.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Antimony	0.84	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Arsenic	3.9		0.54	0.25	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Barium	26		0.54	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cadmium	0.19		0.11	0.031	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Chromium	17		0.54	0.093	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cobalt	6.0		0.27	0.061	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Copper	20		0.54	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Iron	16000		11	4.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Lead	9.1		0.27	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Magnesium	34000		5.4	2.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Calcium	78000		110	35	mg/Kg	☼	07/21/15 18:01	07/25/15 01:31	10
Manganese	390		0.54	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Nickel	19		0.54	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Selenium	0.38	J	0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/25/15 01:26	1
Silver	0.066	J	0.27	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Thallium	1.1		0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Vanadium	20		0.27	0.079	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Zinc	42	B	1.1	0.34	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Potassium	3100		27	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Sodium	290		54	7.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 10:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Arsenic	0.014	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:46	1
Magnesium	41		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Manganese	0.76		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Potassium	3.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Zinc	0.057	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	45		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.22	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	57		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	0.069		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	0.092		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	61		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	0.029		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	0.066		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	0.081		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.53		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	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		07/26/15 17:40	07/27/15 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		07/23/15 11:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0071		0.0041	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:55	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/22/15 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/23/15 07:27	07/28/15 13:33	1
2-Fluorophenol	57		25 - 110	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene-d5	55		25 - 115	07/23/15 07:27	07/28/15 13:33	1
Phenol-d5	57		31 - 110	07/23/15 07:27	07/28/15 13:33	1
Terphenyl-d14	82		36 - 134	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Tribromophenol	34	X	35 - 137	07/23/15 07:27	07/28/15 13:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Arsenic	4.8		0.57	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Barium	32		0.57	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Chromium	17		0.57	0.098	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cobalt	5.0		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Copper	18		0.57	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Lead	8.9		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Calcium	77000		110	37	mg/Kg	☼	07/21/15 18:01	07/25/15 01:41	10
Manganese	380		0.57	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Nickel	18		0.57	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Selenium	0.48	J	0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:35	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Thallium	1.2		0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Vanadium	19		0.28	0.083	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Zinc	42	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Potassium	3000		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Sodium	240		57	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Copper	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:51	1
Magnesium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Manganese	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Potassium	4.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Arsenic	0.042	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:04	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Calcium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cobalt	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Iron	110		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Lead	0.068		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:04	1
Magnesium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Manganese	0.91		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Potassium	22		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Zinc	0.34		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	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		07/26/15 17:40	07/27/15 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.39		0.200	0.200	SU	-		07/23/15 11:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0039	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 20:19	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 20:19	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Anthracene	0.033	J	0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Chrysene	0.49		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluoranthene	0.78		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluorene	0.0087 J		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenanthrene	0.24		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pyrene	0.90		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	07/23/15 07:27	07/28/15 16:43	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene-d5	48		25 - 115	07/23/15 07:27	07/28/15 16:43	1
Phenol-d5	51		31 - 110	07/23/15 07:27	07/28/15 16:43	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 07:27	07/28/15 16:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Arsenic	6.3		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Barium	49		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Beryllium	0.61		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cadmium	0.20		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Chromium	19		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cobalt	8.2		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Copper	16		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Iron	18000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Lead	15		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Magnesium	24000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Calcium	44000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Manganese	570		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Nickel	18		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Selenium	0.77		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:45	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Zinc	50	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Potassium	2000		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Sodium	2200		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (0-5)

Date Collected: 07/17/15 10:30

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-7

Matrix: Solid

Percent Solids: 83.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Barium	0.42	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Calcium	600		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Copper	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:57	1
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Zinc	0.036	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Calcium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Copper	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Iron	2.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:10	1
Magnesium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Manganese	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Potassium	3.3		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Zinc	0.28		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	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		07/26/15 17:40	07/27/15 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.08		0.200	0.200	SU	-		07/23/15 11:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Benzene	<0.0036		0.0036	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromodichloromethane	<0.0036		0.0036	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromoform	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromomethane	<0.0036 *		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon tetrachloride	<0.0036		0.0036	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chlorobenzene	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroform	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloromethane	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Dibromochloromethane	<0.0036		0.0036	0.00042	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethane	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloropropane	<0.0036		0.0036	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Ethylbenzene	<0.0036		0.0036	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methylene Chloride	<0.0036		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Styrene	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1,2-Tetrachloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Tetrachloroethene	<0.0036 *		0.0036	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Toluene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Trichloroethene	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl acetate	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl chloride	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Xylenes, Total	<0.0073		0.0073	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 13:48	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 13:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Chrysene	0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluoranthene	0.050		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pyrene	0.051		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	07/23/15 07:27	07/28/15 13:59	1
2-Fluorophenol	56		25 - 110	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene-d5	50		25 - 115	07/23/15 07:27	07/28/15 13:59	1
Phenol-d5	46		31 - 110	07/23/15 07:27	07/28/15 13:59	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Tribromophenol	24	X	35 - 137	07/23/15 07:27	07/28/15 13:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		12	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Antimony	0.53	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Arsenic	7.4		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Barium	35		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cadmium	0.18		0.12	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cobalt	12		0.29	0.065	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Iron	19000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Lead	12		0.29	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Magnesium	30000		5.8	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Calcium	69000		120	37	mg/Kg	☼	07/21/15 18:01	07/25/15 02:02	10
Manganese	540		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Selenium	0.46	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:50	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Vanadium	21		0.29	0.084	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Zinc	41	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Potassium	2700		29	4.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Sodium	1900		58	7.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.47		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Barium	0.23	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:02	1
Magnesium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Barium	<0.50		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Calcium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Copper	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Iron	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:17	1
Magnesium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Manganese	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Zinc	0.076	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	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		07/26/15 17:40	07/27/15 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.50		0.200	0.200	SU	-		07/23/15 11:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/18/15 09:50	07/23/15 14:12	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 14:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Anthracene	0.081		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Chrysene	0.35		0.036	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.30	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluoranthene	0.70		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluorene	0.013 J		0.036	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylnaphthalene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenanthrene	0.26		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pyrene	0.76		0.036	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/29/15 14:02	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene-d5	41		25 - 115	07/23/15 07:27	07/29/15 14:02	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:02	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/29/15 14:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Antimony	<5.6		5.6	1.2	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Arsenic	3.3		2.8	1.3	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Barium	54		2.8	0.51	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Beryllium	0.42	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cadmium	0.43	J B	0.56	0.16	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Chromium	10		2.8	0.48	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cobalt	3.3		1.4	0.32	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Copper	12		2.8	0.61	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Iron	9300		56	22	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Lead	16		1.4	0.70	mg/Kg	☼	07/21/15 18:01	07/26/15 18:07	5
Magnesium	62000		28	11	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Calcium	160000		56	18	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Manganese	470		2.8	0.55	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Nickel	10		2.8	0.76	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Selenium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Silver	<1.4		1.4	0.33	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Vanadium	15		1.4	0.41	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Zinc	37	B	5.6	1.8	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Potassium	910		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Sodium	1500		56	7.4	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (0-5)

Date Collected: 07/17/15 11:05

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-9

Matrix: Solid

Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Calcium	1000		25	5.0	mg/L		07/26/15 17:40	07/28/15 15:33	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cobalt	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:07	1
Magnesium	210		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Manganese	3.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Nickel	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Potassium	2.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Zinc	0.44	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Iron	2.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:24	1
Magnesium	5.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Manganese	0.064		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Potassium	3.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Zinc	0.053	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	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		07/26/15 17:40	07/27/15 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU	-		07/23/15 11:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Tetrachloroethene	<0.0038	*	0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 14:36	1
Dibromofluoromethane	102		75 - 120	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/18/15 09:50	07/23/15 14:36	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluoranthene	0.047		0.037	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pyrene	0.044		0.037	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	07/23/15 07:27	07/28/15 14:26	1
2-Fluorophenol	65		25 - 110	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene-d5	61		25 - 115	07/23/15 07:27	07/28/15 14:26	1
Phenol-d5	63		31 - 110	07/23/15 07:27	07/28/15 14:26	1
Terphenyl-d14	100		36 - 134	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Tribromophenol	26	X	35 - 137	07/23/15 07:27	07/28/15 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	2.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Antimony	0.28	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Arsenic	5.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Barium	40		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cadmium	0.10	J	0.12	0.033	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Chromium	18		0.58	0.099	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cobalt	8.2		0.29	0.065	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Lead	9.3		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Magnesium	33000		5.8	2.3	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Calcium	85000		120	37	mg/Kg	☼	07/22/15 10:00	07/26/15 19:54	10
Manganese	460		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Selenium	0.76		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Vanadium	22		0.29	0.084	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Zinc	41		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Potassium	3800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Sodium	1400		58	7.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Iron	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:12	1
Magnesium	98		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Potassium	4.7	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Zinc	0.085	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Arsenic	0.019	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Barium	0.14	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Calcium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Chromium	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Copper	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Iron	7.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Lead	0.017		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:31	1
Magnesium	6.8		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Manganese	0.068		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Nickel	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Potassium	6.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Vanadium	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	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		07/26/15 17:40	07/27/15 19:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU	-		07/23/15 11:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:00	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 15:00	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/23/15 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Chrysene	0.056		0.039	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluoranthene	0.086		0.039	0.0074	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenanthrene	0.044		0.039	0.0055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pyrene	0.089		0.039	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/23/15 07:27	07/29/15 14:27	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene-d5	43		25 - 115	07/23/15 07:27	07/29/15 14:27	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:27	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 07:27	07/29/15 14:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000	B	12	2.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Antimony	0.66	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Arsenic	8.8		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Barium	69		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Beryllium	0.91		0.24	0.051	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Chromium	24		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cobalt	13		0.30	0.067	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Iron	25000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Lead	18		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Magnesium	7900		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Calcium	7800		12	3.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Manganese	600		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Nickel	26		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Selenium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Thallium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Vanadium	32		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Zinc	55		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Potassium	2800		30	4.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Sodium	2100		59	7.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0069	mg/Kg	☼	07/23/15 16:00	07/27/15 11:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Barium	0.29	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:18	1
Magnesium	86		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Nickel	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Zinc	0.093	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Arsenic	0.022	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Barium	0.16	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Calcium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Chromium	0.048		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cobalt	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Copper	0.075		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Iron	41		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Lead	0.026		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:37	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Manganese	0.19		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Nickel	0.050		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Potassium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Vanadium	0.055		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	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		07/26/15 17:40	07/27/15 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU	-		07/23/15 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromomethane	<0.0047	*	0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Tetrachloroethene	<0.0047	*	0.0047	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 15:24	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/18/15 09:50	07/23/15 15:24	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Chrysene	0.018	J	0.036	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	07/23/15 07:27	07/28/15 15:20	1
2-Fluorophenol	69		25 - 110	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene-d5	63		25 - 115	07/23/15 07:27	07/28/15 15:20	1
Phenol-d5	64		31 - 110	07/23/15 07:27	07/28/15 15:20	1
Terphenyl-d14	103		36 - 134	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 07:27	07/28/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.7	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Antimony	0.33	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Arsenic	6.1		0.54	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Barium	25		0.54	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Beryllium	0.61		0.22	0.047	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cadmium	0.12	B	0.11	0.032	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Chromium	13		0.54	0.094	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cobalt	11		0.27	0.062	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Copper	23		0.54	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Iron	16000		11	4.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Lead	14		0.27	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Magnesium	29000		5.4	2.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Calcium	97000		110	35	mg/Kg	☼	07/22/15 10:00	07/26/15 20:03	10
Manganese	530		0.54	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Nickel	31		0.54	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Vanadium	15		0.27	0.080	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Zinc	71		1.1	0.34	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Potassium	2400		27	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Sodium	430	^	54	7.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0057	mg/Kg	☼	07/23/15 16:00	07/27/15 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:23	1
Magnesium	110		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Manganese	1.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Potassium	1.9	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Zinc	0.040	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Barium	0.73		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:44	1
Beryllium	0.0080		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Chromium	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cobalt	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Copper	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Iron	190		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Lead	0.13		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:44	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Zinc	0.67		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	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		07/26/15 17:40	07/27/15 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0032		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU	-		07/23/15 12:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Tetrachloroethene	<0.0043	*	0.0043	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:48	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/23/15 15:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Chrysene	0.033	J	0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pyrene	0.042		0.040	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/23/15 07:27	07/28/15 15:48	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene-d5	59		25 - 115	07/23/15 07:27	07/28/15 15:48	1
Phenol-d5	66		31 - 110	07/23/15 07:27	07/28/15 15:48	1
Terphenyl-d14	93		36 - 134	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Tribromophenol	31	X	35 - 137	07/23/15 07:27	07/28/15 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Antimony	0.29	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Arsenic	7.3		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Barium	87		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Beryllium	0.72		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cadmium	0.12	B	0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cobalt	15		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Copper	19		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Iron	20000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Lead	44		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Magnesium	11000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Calcium	17000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Manganese	950		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Nickel	23		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Selenium	0.52	J	0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Vanadium	26		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Potassium	1600		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Sodium	1600	^	60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.019	0.0067	mg/Kg	☼	07/23/15 16:00	07/27/15 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Barium	0.35	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Calcium	440		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:36	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Zinc	0.048	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:51	1
Beryllium	0.0057		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Calcium	81		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Chromium	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cobalt	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Copper	0.20		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Lead	0.055		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:51	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Manganese	0.92		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Zinc	0.50		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	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		07/26/15 17:40	07/27/15 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU	-		07/23/15 12:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Tetrachloroethene	<0.0043	*	0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:12	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 16:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	07/23/15 07:27	07/28/15 16:15	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene-d5	58		25 - 115	07/23/15 07:27	07/28/15 16:15	1
Phenol-d5	54		31 - 110	07/23/15 07:27	07/28/15 16:15	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/28/15 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Arsenic	4.4		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Beryllium	0.69		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Chromium	15		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cobalt	9.0		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Iron	17000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Lead	10		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Magnesium	29000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Calcium	90000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:17	10
Manganese	430		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Nickel	27		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Vanadium	18		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Zinc	52		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Potassium	2700		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Sodium	590	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Barium	0.31	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:41	1
Magnesium	96		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Manganese	0.83		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:58	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Calcium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cobalt	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Lead	0.083		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:58	1
Magnesium	21		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Potassium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Zinc	0.61		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU	-		07/23/15 12:17	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Tetrachloroethene	<0.0038	*	0.0038	0.00080	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:37	1
Dibromofluoromethane	98		75 - 120	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/23/15 16:37	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Chrysene	0.049		0.040	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluoranthene	0.058		0.040	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pyrene	0.066		0.040	0.0079	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/23/15 16:46	07/29/15 14:54	1
2-Fluorophenol	43		25 - 110	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/29/15 14:54	1
Phenol-d5	47		31 - 110	07/23/15 16:46	07/29/15 14:54	1
Terphenyl-d14	91		36 - 134	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Tribromophenol	21	X	35 - 137	07/23/15 16:46	07/29/15 14:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Antimony	0.39	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Arsenic	7.7		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Barium	64		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Beryllium	0.85		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cobalt	12		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Copper	26		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Iron	22000		12	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Lead	51		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Magnesium	15000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Calcium	23000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Manganese	500		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Nickel	31		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Selenium	0.63		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Vanadium	24		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Potassium	2000		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Sodium	1300	A	60	8.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0068	mg/Kg	☼	07/23/15 16:00	07/27/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Calcium	510		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:46	1
Magnesium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Nickel	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Potassium	4.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Zinc	0.049	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:20	1
Beryllium	0.0062		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Calcium	67		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Chromium	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cobalt	0.049		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Iron	150		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Lead	0.077		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:20	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Nickel	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Potassium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Zinc	0.45		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0029		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	-		07/23/15 12:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Tetrachloroethene	<0.0042	*	0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 17:01	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 17:01	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/23/15 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		25 - 119	07/23/15 16:46	07/28/15 18:05	1
2-Fluorophenol	48		25 - 110	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 18:05	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/28/15 18:05	1
Terphenyl-d14	105		36 - 134	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 16:46	07/28/15 18:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Antimony	0.28	J	1.1	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Arsenic	5.7		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Chromium	14		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Iron	18000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Lead	11		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Magnesium	32000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Calcium	97000		110	37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:38	10
Manganese	500		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Nickel	28		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Selenium	0.52	J	0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Vanadium	17		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Zinc	50		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Potassium	2300		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Sodium	820	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0059	mg/Kg	☼	07/23/15 16:00	07/27/15 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Barium	0.34	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Calcium	380		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:52	1
Magnesium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Manganese	1.5		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Nickel	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Potassium	4.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Zinc	0.035	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Barium	0.093	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Calcium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Chromium	0.023	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Iron	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Lead	0.0087		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:27	1
Magnesium	12		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Manganese	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Nickel	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Potassium	7.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Vanadium	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Zinc	0.051	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU	-		07/23/15 12:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0044	0.0034	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromomethane	<0.0044 *		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Tetrachloroethene	<0.0044 *		0.0044	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/18/15 09:50	07/23/15 20:16	1
Dibromofluoromethane	108		75 - 120	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/23/15 20:16	1
Toluene-d8 (Surr)	92		75 - 122	07/18/15 09:50	07/23/15 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Chrysene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pyrene	0.014	J	0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/23/15 16:46	07/29/15 15:20	1
2-Fluorophenol	61		25 - 110	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene-d5	54		25 - 115	07/23/15 16:46	07/29/15 15:20	1
Phenol-d5	57		31 - 110	07/23/15 16:46	07/29/15 15:20	1
Terphenyl-d14	124		36 - 134	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 16:46	07/29/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Arsenic	5.3		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Barium	33		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Chromium	14		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cobalt	11		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Copper	22		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Iron	17000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Lead	12		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Calcium	90000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:47	10
Manganese	480		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Nickel	28		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Vanadium	17		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Zinc	57		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Sodium	470	^	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	50		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.52		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	2.1	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.16		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Arsenic	0.054		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:34	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Calcium	43		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cobalt	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Lead	0.067		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:34	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Manganese	0.67		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Zinc	0.48		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0028		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.24		0.200	0.200	SU	-		07/23/15 12:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0031	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromoform	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromomethane	<0.0039	*	0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Tetrachloroethene	<0.0039	*	0.0039	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 21:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/18/15 09:50	07/23/15 21:55	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pyrene	0.033	J	0.038	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/23/15 16:46	07/29/15 15:47	1
2-Fluorophenol	45		25 - 110	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene-d5	40		25 - 115	07/23/15 16:46	07/29/15 15:47	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/29/15 15:47	1
Terphenyl-d14	118		36 - 134	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Tribromophenol	43		35 - 137	07/23/15 16:46	07/29/15 15:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Arsenic	6.2		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Barium	37		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Beryllium	0.69		0.23	0.051	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Chromium	14		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Lead	13		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Magnesium	31000		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Calcium	110000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:56	10
Manganese	520		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Nickel	31		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Selenium	0.36	J	0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Vanadium	18		0.29	0.086	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Zinc	50		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Sodium	1200	^	59	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (0-5)

Date Collected: 07/17/15 14:00

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-18

Matrix: Solid

Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cobalt	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:02	1
Magnesium	68		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Nickel	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Potassium	3.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Zinc	0.032	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Arsenic	0.010	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Barium	0.13	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Calcium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Chromium	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Copper	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Iron	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Lead	0.014		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:41	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Manganese	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Nickel	0.039		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Potassium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Vanadium	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Zinc	0.081	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	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		07/26/15 17:40	07/27/15 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU	-		07/23/15 12:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Tetrachloroethene	<0.0042	*	0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 21:07	1
Dibromofluoromethane	109		75 - 120	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 21:07	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dimethylphenol	<0.37	F1	0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4,6-Dinitro-2-methylphenol	<0.37	F1	0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:28	1
2-Fluorophenol	38		25 - 110	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene-d5	37		25 - 115	07/23/15 16:46	07/28/15 19:28	1
Phenol-d5	35		31 - 110	07/23/15 16:46	07/28/15 19:28	1
Terphenyl-d14	71		36 - 134	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 16:46	07/28/15 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Antimony	0.41	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Barium	30		0.56	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Chromium	13		0.56	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cobalt	16		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Copper	18		0.56	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Iron	15000		11	4.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Lead	9.6		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Calcium	100000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:05	10
Manganese	390		0.56	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Nickel	29		0.56	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Selenium	0.38	J	0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Vanadium	16		0.28	0.082	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Zinc	42		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Potassium	2100		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Sodium	180	^	56	7.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Barium	0.52		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Calcium	200		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cobalt	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:07	1
Magnesium	100		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Manganese	13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Nickel	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Potassium	5.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Zinc	0.083	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Barium	0.10	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Calcium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Chromium	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Iron	6.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Lead	0.010		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:47	1
Magnesium	4.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Potassium	4.7		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Vanadium	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Zinc	0.29		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	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		07/26/15 17:40	07/27/15 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	-		07/23/15 12:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0045	0.0035	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/18/15 09:50	07/24/15 18:42	1
Dibromofluoromethane	107		75 - 120	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	07/18/15 09:50	07/24/15 18:42	1
Toluene-d8 (Surr)	116		75 - 122	07/18/15 09:50	07/24/15 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Chrysene	0.037	J	0.039	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluoranthene	0.047		0.039	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pyrene	0.058		0.039	0.0078	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	07/23/15 16:46	07/29/15 16:13	1
2-Fluorophenol	56		25 - 110	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene-d5	53		25 - 115	07/23/15 16:46	07/29/15 16:13	1
Phenol-d5	58		31 - 110	07/23/15 16:46	07/29/15 16:13	1
Terphenyl-d14	114		36 - 134	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 16:46	07/29/15 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Barium	53		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Beryllium	0.82		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Chromium	17		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Iron	21000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Lead	20		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Magnesium	9000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Calcium	12000		12	3.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Manganese	340		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Selenium	0.71		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Zinc	72		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Potassium	1800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Sodium	2700	^	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Calcium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cobalt	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:17	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Manganese	5.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Nickel	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Barium	0.83		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:27	1
Beryllium	0.0098		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cadmium	0.0051		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Calcium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cobalt	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Iron	240		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Lead	0.14		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:16	5
Magnesium	48		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Manganese	2.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Nickel	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Potassium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Zinc	0.71		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	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		07/26/15 17:40	07/27/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0048		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU	-		07/23/15 12:47	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0055	0.0042	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/18/15 09:50	07/24/15 19:06	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/24/15 19:06	1
Toluene-d8 (Surr)	115		75 - 122	07/18/15 09:50	07/24/15 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:56	1
2-Fluorophenol	46		25 - 110	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 19:56	1
Phenol-d5	44		31 - 110	07/23/15 16:46	07/28/15 19:56	1
Terphenyl-d14	99		36 - 134	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Tribromophenol	25	X	35 - 137	07/23/15 16:46	07/28/15 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Antimony	<1.2		1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Arsenic	9.6		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Barium	67		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Beryllium	0.95		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Chromium	22		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cobalt	13		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Copper	23		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Iron	28000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Lead	17		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Magnesium	4800		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Calcium	2200		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Manganese	470		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Nickel	41		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Selenium	0.45	J	0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Thallium	0.29	J	0.60	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Vanadium	29		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Zinc	80		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Potassium	2500		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Sodium	970	^	60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0063	mg/Kg	☼	07/23/15 16:00	07/24/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0050	0.0013	mg/L			07/21/15 16:01	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 16:01	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 16:01	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 16:01	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 16:01	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 16:01	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 16:01	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 16:01	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 16:01	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 16:01	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 16:01	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 16:01	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 16:01	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 16:01	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 16:01	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 16:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 16:01	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 16:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 16:01	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 16:01	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 16:01	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 16:01	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 16:01	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		07/21/15 16:01	1
Dibromofluoromethane	93		75 - 120		07/21/15 16:01	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		07/21/15 16:01	1
Toluene-d8 (Surr)	98		75 - 120		07/21/15 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Acenaphthylene	<0.00074		0.00074	0.00020	mg/L		07/23/15 08:37	07/27/15 19:27	1
Anthracene	<0.00074		0.00074	0.00025	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00021	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-ethylhexyl) phthalate	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Bromophenyl phenyl ether	<0.0037		0.0037	0.00040	mg/L		07/23/15 08:37	07/27/15 19:27	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00035	mg/L		07/23/15 08:37	07/27/15 19:27	1
Carbazole	<0.0037		0.0037	0.00026	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloroaniline	<0.0074		0.0074	0.0015	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloro-3-methylphenol	<0.0074		0.0074	0.0017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chloronaphthalene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chlorophenol	<0.0037		0.0037	0.00041	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chlorophenyl phenyl ether	<0.0037		0.0037	0.00047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Chrysene	0.0016		0.00037	0.000050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenzofuran	<0.0015		0.0015	0.00019	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2-Dichlorobenzene	<0.0015		0.0015	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,3-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,4-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
3,3'-Dichlorobenzidine	<0.0037		0.0037	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
Diethyl phthalate	<0.0015		0.0015	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dimethylphenol	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dimethyl phthalate	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-butyl phthalate	<0.0037		0.0037	0.00054	mg/L		07/23/15 08:37	07/27/15 19:27	1
4,6-Dinitro-2-methylphenol	<0.015	*	0.015	0.0044	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrophenol	<0.015	*	0.015	0.0063	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrotoluene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,6-Dinitrotoluene	<0.00037		0.00037	0.000054	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-octyl phthalate	<0.0074		0.0074	0.00077	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluoranthene	0.0022		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluorene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobenzene	<0.00037		0.00037	0.000059	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobutadiene	<0.0037		0.0037	0.00038	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorocyclopentadiene	<0.015		0.015	0.0047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachloroethane	<0.0037		0.0037	0.00044	mg/L		07/23/15 08:37	07/27/15 19:27	1
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L		07/23/15 08:37	07/27/15 19:27	1
Isophorone	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylnaphthalene	<0.00037		0.00037	0.000048	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylphenol	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Naphthalene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitroaniline	<0.0037		0.0037	0.00095	mg/L		07/23/15 08:37	07/27/15 19:27	1
3-Nitroaniline	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Nitroaniline	<0.0074		0.0074	0.0012	mg/L		07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene	<0.00074		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitrophenol	<0.0074		0.0074	0.0018	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0055	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodi-n-propylamine	<0.00037		0.00037	0.00011	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodiphenylamine	<0.00074		0.00074	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pentachlorophenol	<0.015	*	0.015	0.0029	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenol	<0.0037		0.0037	0.00050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pyrene	0.0018		0.00074	0.00031	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2,4-Trichlorobenzene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,5-Trichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,6-Trichlorophenol	<0.0037		0.0037	0.00053	mg/L		07/23/15 08:37	07/27/15 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		41 - 132				07/23/15 08:37	07/27/15 19:27	1
2-Fluorophenol	56		32 - 110				07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene-d5	76		47 - 134				07/23/15 08:37	07/27/15 19:27	1
Phenol-d5	46		25 - 100				07/23/15 08:37	07/27/15 19:27	1
Terphenyl-d14	87		59 - 150				07/23/15 08:37	07/27/15 19:27	1
2,4,6-Tribromophenol	87		53 - 150				07/23/15 08:37	07/27/15 19:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		0.50	0.27	mg/L		07/21/15 09:30	07/21/15 22:26	5
Antimony	<0.0030		0.0030	0.0010	mg/L		07/21/15 09:30	07/23/15 22:54	1
Arsenic	0.23		0.0050	0.0022	mg/L		07/21/15 09:30	07/21/15 22:26	5
Barium	1.1		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Beryllium	0.012		0.0010	0.00024	mg/L		07/21/15 09:30	07/28/15 16:31	1
Cadmium	0.0073		0.0025	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Calcium	840	B	1.0	0.53	mg/L		07/21/15 09:30	07/21/15 22:26	5
Chromium	0.11		0.025	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Cobalt	0.15		0.0050	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Copper	0.83		0.0020	0.00096	mg/L		07/21/15 09:30	07/28/15 16:31	1
Iron	140		0.50	0.13	mg/L		07/21/15 09:30	07/21/15 22:26	5
Lead	0.62		0.0025	0.00071	mg/L		07/21/15 09:30	07/21/15 22:26	5
Magnesium	380		2.0	0.83	mg/L		07/21/15 09:30	07/23/15 22:58	10
Manganese	1.9		0.013	0.0050	mg/L		07/21/15 09:30	07/21/15 22:26	5
Nickel	0.45		0.010	0.0026	mg/L		07/21/15 09:30	07/21/15 22:26	5
Potassium	28		2.5	0.95	mg/L		07/21/15 09:30	07/21/15 22:26	5
Selenium	0.017		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Silver	0.0020		0.00050	0.000080	mg/L		07/21/15 09:30	07/23/15 22:54	1
Sodium	95		0.20	0.088	mg/L		07/21/15 09:30	07/28/15 16:31	1
Thallium	0.017		0.010	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Vanadium	0.25		0.025	0.011	mg/L		07/21/15 09:30	07/21/15 22:26	5
Zinc	2.4	B	0.10	0.023	mg/L		07/21/15 09:30	07/21/15 22:26	5

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	*	0.00020	0.000061	mg/L		07/22/15 15:00	07/23/15 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

Date Collected: 07/17/15 00:00

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0013	mg/L			07/21/15 13:46	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 13:46	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 13:46	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 13:46	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 13:46	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 13:46	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 13:46	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 13:46	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 13:46	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 13:46	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 13:46	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 13:46	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 13:46	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 13:46	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 13:46	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 13:46	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 13:46	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 13:46	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 13:46	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 13:46	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 13:46	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 13:46	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 13:46	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 120		07/21/15 13:46	1
Dibromofluoromethane	96		75 - 120		07/21/15 13:46	1
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		07/21/15 13:46	1
Toluene-d8 (Surr)	95		75 - 120		07/21/15 13:46	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98751-1

Login Number: 98751
List Number: 1
Creator: James, Jeff A

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3, 2.9, 3.9
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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-98751-2

Client Project/Site: IDOT - Northbrook - WO 002

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

7/30/2015 4:31:03 PM

Richard Wright, Senior Project Manager

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LINKS

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

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

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

1

2

3

4

5

6

7

8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Sample Summary	27
Client Sample Results	28
Definitions	146
Chain of Custody	147
Receipt Checklists	151

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Job ID: 500-98751-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98751-2

Receipt

The samples were received on 7/18/2015 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.3° C and 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batches 296607 and 296812 recovered outside control limits for one or more of the following analytes: Bromomethane and Tetrachloroethene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples had 2,4,6-Tribromophenol biased low. All other surrogate recoveries for these samples were within limits. 2682-4-B01 (0-5) (500-98751-3), 2682-4-B01 (5-11) (500-98751-4), 2682-4-B02 (0-5) (500-98751-5), 2682-4-B02 (5-11) (500-98751-6), 2682-4-B03 (0-5) (500-98751-7), 2682-4-B03 (5-11) (500-98751-8), 2682-4-B05 (0-5) (500-98751-9), 2682-4-B05 (5-11) (500-98751-10), 2682-4-B07 (0-5) (500-98751-11), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (5-11) (500-98751-21), (500-98751-E-1-E) and (500-98751-E-1-G MSD). 500-98751-1MS had Phenol-d5 biased low. All other surrogate recoveries for this sample were within limits. No further action was required.

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 500-296798 had 3 known poor performing analytes outside control limits: 4,6-Dinitro-2-methylphenol; 2,4-Dinitrophenol and Pentachlorophenol. These results have been reported and qualified. (LCS 500-296798/2-A) and (LCSD 500-296798/3-A)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-296798 recovered outside control limits (20%) for the following analytes: 4,6-Dinitro-2-methylphenol (28%); 2,4-Dinitrophenol (200%); and Pentachlorophenol (97%). The LCSD was within limits for these analytes, with the exception of Pentachlorophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the abundance of target and non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B05 (0-5) (500-98751-9). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The initial calibration verification (ICV) was slightly outside of the method control limits for Sodium, at 111%rec., associated with the samples 2682-4-B07 (5-11) (500-98751-12), 2682-4-B09 (0-5) (500-98751-13), 2682-4-B09 (5-11) (500-98751-14), 2682-4-B11 (0-5) (500-98751-15), 2682-4-B11 (5-11) (500-98751-16), 2682-4-B11 DUP (5-11) (500-98751-17), 2682-4-B13 (0-5) (500-98751-18), 2682-4-B13 (5-11) (500-98751-19), 2682-4-B15 (0-5) (500-98751-20) and 2682-4-B15 (5-11) (500-98751-21). The continuing calibration verifications (CCV), laboratory control sample (LCS), and all other QC was within the control limits, therefore the data has been reported.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2682-4-B15 (5-11) (500-98751-21). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The laboratory control sample (LCS) for batch 296658 recovered outside control limits for the following analytes: Hg. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Job ID: 500-98751-2 (Continued)

Laboratory: TestAmerica Chicago (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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2

3

4

5

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7

8

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.016		0.0042	0.0033	mg/Kg	1		☼	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	1		☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.55	J	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	46		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.71		0.23	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	50000		12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	590		0.58	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.47	J	0.58	0.29	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1		☼	6010B	Total/NA
Zinc	46	B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	2600		29	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	400		58	7.7	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.97		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	400		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.6	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	32		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.013	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.20	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.043		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.053		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	34		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.023		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	13		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.36		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.045		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.056		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.11		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.023		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.014		0.0043	0.0033	mg/Kg	1		☼	8260B	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.35	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.1		0.56	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	34		0.56	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.56	0.097	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	9.4		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	32000		5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	77000		110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	490		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	24		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.49	J	0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.3		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	40	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	210		56	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.88		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.30	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	590		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.028	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.21	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.067		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	62		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.073		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.42		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.026		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5) (Continued)

Lab Sample ID: 500-98751-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9500		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.84	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	3.9		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	26		0.54	0.099	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.60		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.19		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.54	0.093	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.0		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	9.1		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	34000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	78000		110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	390		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.38	J	0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Silver	0.066	J	0.27	0.064	mg/Kg	1		☼	6010B	Total/NA
Thallium	1.1		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1		☼	6010B	Total/NA
Zinc	42	B	1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	290		54	7.2	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.91		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	580		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.8	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.024	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	56		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.027	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.28	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	59		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.085		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	71		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.031		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.082		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.094		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.20		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.014	J	0.018	0.0061	mg/Kg	1		☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11) (Continued)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0071		0.0041	0.0032	mg/Kg	1	*	*	8260B	Total/NA
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	1	*	*	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1	*	*	8270D	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1	*	*	6010B	Total/NA
Antimony	0.33	J	1.1	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	4.8		0.57	0.26	mg/Kg	1	*	*	6010B	Total/NA
Barium	32		0.57	0.10	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.15		0.11	0.033	mg/Kg	1	*	*	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	5.0		0.28	0.064	mg/Kg	1	*	*	6010B	Total/NA
Copper	18		0.57	0.12	mg/Kg	1	*	*	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	*	*	6010B	Total/NA
Lead	8.9		0.28	0.14	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1	*	*	6010B	Total/NA
Calcium	77000		110	37	mg/Kg	10	*	*	6010B	Total/NA
Manganese	380		0.57	0.11	mg/Kg	1	*	*	6010B	Total/NA
Nickel	18		0.57	0.15	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.48	J	0.57	0.28	mg/Kg	1	*	*	6010B	Total/NA
Thallium	1.2		0.57	0.28	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	*	*	6010B	Total/NA
Zinc	42	B	1.1	0.36	mg/Kg	1	*	*	6010B	Total/NA
Potassium	3000		28	4.6	mg/Kg	1	*	*	6010B	Total/NA
Sodium	240		57	7.5	mg/Kg	1	*	*	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.014	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.38	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	580		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	41		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.1	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.057	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	45		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.030	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.22	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	57		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.069		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.092		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	61		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.029		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	28		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.33		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.066		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.081		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11) (Continued)

Lab Sample ID: 500-98751-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.53		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.033	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.49		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.78		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0087	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.90		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	44000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.77		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	50	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.98		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.3	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5) (Continued)

Lab Sample ID: 500-98751-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	97		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.042	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.068		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.91		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	9.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0056		0.0036	0.0028	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.051		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9400		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.53	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	540		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11) (Continued)

Lab Sample ID: 500-98751-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.7		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.4		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	4.6		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.3		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.28		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.081		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.35		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.70		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.76		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Aluminum	4600		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.3		2.8	1.3	mg/Kg	5	☼	6010B	Total/NA
Barium	54		2.8	0.51	mg/Kg	5	☼	6010B	Total/NA
Beryllium	0.42	J	1.1	0.24	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.43	J B	0.56	0.16	mg/Kg	5	☼	6010B	Total/NA
Chromium	10		2.8	0.48	mg/Kg	5	☼	6010B	Total/NA
Cobalt	3.3		1.4	0.32	mg/Kg	5	☼	6010B	Total/NA
Copper	12		2.8	0.61	mg/Kg	5	☼	6010B	Total/NA
Iron	9300		56	22	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5) (Continued)

Lab Sample ID: 500-98751-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		1.4	0.70	mg/Kg	5	☼	6010B	Total/NA
Magnesium	62000		28	11	mg/Kg	5	☼	6010B	Total/NA
Calcium	160000		56	18	mg/Kg	5	☼	6010B	Total/NA
Manganese	470		2.8	0.55	mg/Kg	5	☼	6010B	Total/NA
Nickel	10		2.8	0.76	mg/Kg	5	☼	6010B	Total/NA
Vanadium	15		1.4	0.41	mg/Kg	5	☼	6010B	Total/NA
Zinc	37	B	5.6	1.8	mg/Kg	5	☼	6010B	Total/NA
Potassium	910		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.47		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	2.9		0.20	0.20	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.2		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.076	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.044		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.50		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000	B	12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11) (Continued)

Lab Sample ID: 500-98751-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.3		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	210		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.44	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.4		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.071	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	2.1		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	5.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.064		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	3.2		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.053	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.99		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.086		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.089		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	16000	B	12	2.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5) (Continued)

Lab Sample ID: 500-98751-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.66	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7900		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	7800		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	600		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.6		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.6		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.085	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	12		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.019	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	17		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	7.7		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	6.8		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	6.1		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11) (Continued)

Lab Sample ID: 500-98751-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	1		☼	8270D	Total/NA
Aluminum	9300		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.33	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.1		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	25		0.54	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Chromium	13		0.54	0.094	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	14		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	29000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	97000		110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	530		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	31		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Vanadium	15		0.27	0.080	mg/Kg	1		☼	6010B	Total/NA
Zinc	71		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	2400		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	430	^	54	7.2	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.95		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.29	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	450		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	86		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.093	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	31		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.022	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.16	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.048		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.010	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.075		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	41		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.026		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.19		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.050		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.055		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.19		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.018		0.016	0.0057	mg/Kg	1		☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.033	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.042		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA	
Aluminum	13000		12	3.0	mg/Kg	1	☼	6010B	Total/NA	
Antimony	0.29	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	7.3		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA	
Barium	87		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.72		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.12	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA	
Chromium	17		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	15		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA	
Copper	19		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA	
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	44		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	11000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA	
Calcium	17000		12	3.9	mg/Kg	1	☼	6010B	Total/NA	
Manganese	950		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA	
Nickel	23		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.52	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	26		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA	
Zinc	83		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1600		30	4.9	mg/Kg	1	☼	6010B	Total/NA	
Sodium	1600	^	60	7.9	mg/Kg	1	☼	6010B	Total/NA	
Aluminum	0.94		0.20	0.20	mg/L	1		6010B	TCLP	
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP	
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	1.9	J B	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.040	J	0.10	0.020	mg/L	1		6010B	TCLP	
Aluminum	180		0.20	0.20	mg/L	1		6010B	SPLP East	
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East	
Barium	0.73		0.50	0.050	mg/L	1		6010B	SPLP East	
Beryllium	0.0080		0.0040	0.0040	mg/L	1		6010B	SPLP East	
Calcium	35		2.5	0.50	mg/L	1		6010B	SPLP East	
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East	
Cobalt	0.047		0.025	0.010	mg/L	1		6010B	SPLP East	
Copper	0.22		0.025	0.010	mg/L	1		6010B	SPLP East	
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East	
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East	
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East	
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5) (Continued)

Lab Sample ID: 500-98751-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.67		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0032		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.055		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	590	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.048	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	91		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0057		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	81		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.055		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11) (Continued)

Lab Sample ID: 500-98751-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.50		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.011	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.058		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.066		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	14000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	^	60	8.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	100		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	19		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5) (Continued)

Lab Sample ID: 500-98751-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.083		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.051		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0092		0.0042	0.0032	mg/Kg	1	☼	8260B	Total/NA
Aluminum	10000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.28	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	820	^	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	98		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.055		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0062		0.0040	0.0040	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11) (Continued)

Lab Sample ID: 500-98751-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	67		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	150		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.077		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.45		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0029		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.019		0.017	0.0059	mg/Kg	1	*	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0045		0.0044	0.0034	mg/Kg	1	*	8260B	Total/NA
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.014	J	0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0076	mg/Kg	1	*	8270D	Total/NA
Aluminum	9800		12	2.9	mg/Kg	1	*	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	5.3		0.58	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	33		0.58	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	*	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	12		0.29	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	90000		120	38	mg/Kg	10	*	6010B	Total/NA
Manganese	480		0.58	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	*	6010B	Total/NA
Vanadium	17		0.29	0.085	mg/Kg	1	*	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	*	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	*	6010B	Total/NA
Sodium	470	^	58	7.7	mg/Kg	1	*	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1	B	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11) (Continued)

Lab Sample ID: 500-98751-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.035	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	16		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.093	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	12		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0087		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	7.9		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.051	J	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Aluminum	10000		12	2.9	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.2		0.59	0.27	mg/Kg	1	✳	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.69		0.23	0.051	mg/Kg	1	✳	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	✳	6010B	Total/NA
Calcium	110000		120	38	mg/Kg	10	✳	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.36	J	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	18		0.29	0.086	mg/Kg	1	✳	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200	^	59	7.7	mg/Kg	1	✳	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5) (Continued)

Lab Sample ID: 500-98751-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	95		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.054		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.067		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.48		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.038		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.41	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	180	^	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11) (Continued)

Lab Sample ID: 500-98751-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.13	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	24		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.081	J	0.10	0.020	mg/L	1		6010B	SPLP East
pH	8.15		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0045	0.0035	mg/Kg	1	*	8260B	Total/NA
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.037	J	0.039	0.011	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.047		0.039	0.0073	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.058		0.039	0.0078	mg/Kg	1	*	8270D	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	*	6010B	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.82		0.23	0.050	mg/Kg	1	*	6010B	Total/NA
Chromium	17		0.58	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	*	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	9000		5.8	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	12000		12	3.7	mg/Kg	1	*	6010B	Total/NA
Manganese	340		0.58	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.71		0.58	0.29	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5) (Continued)

Lab Sample ID: 500-98751-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700	^	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.5		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	8.1		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	6.4		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	4.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.042		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.0055	0.0042	mg/Kg	1	☼	8260B	Total/NA
Aluminum	14000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.95		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11) (Continued)

Lab Sample ID: 500-98751-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	80		1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	2500		30	4.9	mg/Kg	1		☼	6010B	Total/NA
Sodium	970	^	60	7.9	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.21	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	46		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.22		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.32		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.045	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.83		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0098		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0051		0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.094		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.14		0.038	0.038	mg/L	5			6010B	SPLP East
Magnesium	48		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.8		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.33		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	37		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.71		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.048		0.018	0.0063	mg/Kg	1		☼	7471B	Total/NA
pH	7.58		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.014		0.0050	0.0013	mg/L	1			8260B	Total/NA
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L	1			8270D	Total/NA
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L	1			8270D	Total/NA
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L	1			8270D	Total/NA
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L	1			8270D	Total/NA
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L	1			8270D	Total/NA
Chrysene	0.0016		0.00037	0.000050	mg/L	1			8270D	Total/NA
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L	1			8270D	Total/NA
Fluoranthene	0.0022		0.00074	0.00033	mg/L	1			8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-G01 (Continued)

Lab Sample ID: 500-98751-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L	1		8270D	Total/NA
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L	1		8270D	Total/NA
Pyrene	0.0018		0.00074	0.00031	mg/L	1		8270D	Total/NA
Aluminum	140		0.50	0.27	mg/L	5		6020A	Total Recoverable
Arsenic	0.23		0.0050	0.0022	mg/L	5		6020A	Total Recoverable
Barium	1.1		0.013	0.0042	mg/L	5		6020A	Total Recoverable
Beryllium	0.012		0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Cadmium	0.0073		0.0025	0.00095	mg/L	5		6020A	Total Recoverable
Calcium	840	B	1.0	0.53	mg/L	5		6020A	Total Recoverable
Chromium	0.11		0.025	0.0030	mg/L	5		6020A	Total Recoverable
Cobalt	0.15		0.0050	0.00095	mg/L	5		6020A	Total Recoverable
Copper	0.83		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	140		0.50	0.13	mg/L	5		6020A	Total Recoverable
Lead	0.62		0.0025	0.00071	mg/L	5		6020A	Total Recoverable
Magnesium	380		2.0	0.83	mg/L	10		6020A	Total Recoverable
Manganese	1.9		0.013	0.0050	mg/L	5		6020A	Total Recoverable
Nickel	0.45		0.010	0.0026	mg/L	5		6020A	Total Recoverable
Potassium	28		2.5	0.95	mg/L	5		6020A	Total Recoverable
Selenium	0.017		0.013	0.0042	mg/L	5		6020A	Total Recoverable
Silver	0.0020		0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	95		0.20	0.088	mg/L	1		6020A	Total Recoverable
Thallium	0.017		0.010	0.0030	mg/L	5		6020A	Total Recoverable
Vanadium	0.25		0.025	0.011	mg/L	5		6020A	Total Recoverable
Zinc	2.4	B	0.10	0.023	mg/L	5		6020A	Total Recoverable

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98751-3	2682-4-B01 (0-5)	Solid	07/17/15 08:45	07/18/15 08:00
500-98751-4	2682-4-B01 (5-11)	Solid	07/17/15 09:00	07/18/15 08:00
500-98751-5	2682-4-B02 (0-5)	Solid	07/17/15 09:15	07/18/15 08:00
500-98751-6	2682-4-B02 (5-11)	Solid	07/17/15 09:25	07/18/15 08:00
500-98751-7	2682-4-B03 (0-5)	Solid	07/17/15 10:30	07/18/15 08:00
500-98751-8	2682-4-B03 (5-11)	Solid	07/17/15 10:40	07/18/15 08:00
500-98751-9	2682-4-B05 (0-5)	Solid	07/17/15 11:05	07/18/15 08:00
500-98751-10	2682-4-B05 (5-11)	Solid	07/17/15 11:15	07/18/15 08:00
500-98751-11	2682-4-B07 (0-5)	Solid	07/17/15 11:45	07/18/15 08:00
500-98751-12	2682-4-B07 (5-11)	Solid	07/17/15 11:55	07/18/15 08:00
500-98751-13	2682-4-B09 (0-5)	Solid	07/17/15 12:20	07/18/15 08:00
500-98751-14	2682-4-B09 (5-11)	Solid	07/17/15 12:30	07/18/15 08:00
500-98751-15	2682-4-B11 (0-5)	Solid	07/17/15 12:55	07/18/15 08:00
500-98751-16	2682-4-B11 (5-11)	Solid	07/17/15 13:15	07/18/15 08:00
500-98751-17	2682-4-B11 DUP (5-11)	Solid	07/17/15 13:25	07/18/15 08:00
500-98751-18	2682-4-B13 (0-5)	Solid	07/17/15 14:00	07/18/15 08:00
500-98751-19	2682-4-B13 (5-11)	Solid	07/17/15 14:10	07/18/15 08:00
500-98751-20	2682-4-B15 (0-5)	Solid	07/17/15 14:35	07/18/15 08:00
500-98751-21	2682-4-B15 (5-11)	Solid	07/17/15 14:45	07/18/15 08:00
500-98751-22	2682-4-G01	Water	07/17/15 15:20	07/18/15 08:00
500-98751-23	TRIP BLANK	Water	07/17/15 00:00	07/18/15 08:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Calcium	400		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:07	1
Magnesium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Manganese	2.3		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Nickel	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Potassium	2.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:07	1
Zinc	0.030	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Arsenic	0.013	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Chromium	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Copper	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Iron	34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:21	1
Lead	0.023		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:21	1
Magnesium	13		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Manganese	0.36		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Nickel	0.045		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Potassium	11		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Vanadium	0.056		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:21	1
Zinc	0.11		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:21	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		07/26/15 17:40	07/27/15 19:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Bromomethane	<0.0042 *		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/22/15 18:43	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/22/15 18:43	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/18/15 09:50	07/22/15 18:43	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/22/15 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[a]anthracene	0.0054	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluoranthene	0.0075	J	0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
Pyrene	0.0076	J	0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/28/15 12:14	1
2-Fluorophenol	50		25 - 110	07/23/15 07:27	07/28/15 12:14	1
Nitrobenzene-d5	45		25 - 115	07/23/15 07:27	07/28/15 12:14	1
Phenol-d5	48		31 - 110	07/23/15 07:27	07/28/15 12:14	1
Terphenyl-d14	66		36 - 134	07/23/15 07:27	07/28/15 12:14	1
2,4,6-Tribromophenol	16	X	35 - 137	07/23/15 07:27	07/28/15 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Antimony	0.55	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Arsenic	7.1		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Barium	46		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Beryllium	0.71		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Chromium	18		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Iron	20000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Lead	14		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Calcium	50000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Manganese	590		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Selenium	0.47	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Vanadium	23		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Zinc	46	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Potassium	2600		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1
Sodium	400		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (0-5)

Lab Sample ID: 500-98751-3

Date Collected: 07/17/15 08:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 82.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.88		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Calcium	590		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:36	1
Magnesium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Manganese	0.77		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:36	1
Zinc	0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Arsenic	0.028	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Chromium	0.067		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Copper	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Iron	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:28	1
Lead	0.030		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:28	1
Magnesium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Manganese	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Nickel	0.073		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Vanadium	0.076		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:28	1
Zinc	0.42		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:28	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		07/26/15 17:40	07/27/15 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		07/23/15 11:08	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Bromomethane	<0.0043 *		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/22/15 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:07	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:07	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 19:07	1
Toluene-d8 (Surr)	98		75 - 122	07/18/15 09:50	07/22/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	07/23/15 07:27	07/28/15 12:41	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 12:41	1
Nitrobenzene-d5	47		25 - 115	07/23/15 07:27	07/28/15 12:41	1
Phenol-d5	50		31 - 110	07/23/15 07:27	07/28/15 12:41	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/28/15 12:41	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 07:27	07/28/15 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Antimony	0.35	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Barium	34		0.56	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Chromium	17		0.56	0.097	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Copper	20		0.56	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Lead	9.4		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Magnesium	32000		5.6	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Calcium	77000		110	36	mg/Kg	☼	07/21/15 18:01	07/25/15 01:22	10
Manganese	490		0.56	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Nickel	24		0.56	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Selenium	0.49	J	0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Thallium	1.3		0.56	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Zinc	40	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Potassium	3100		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1
Sodium	210		56	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 10:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B01 (5-11)

Lab Sample ID: 500-98751-4

Date Collected: 07/17/15 09:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:41	1
Magnesium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Manganese	0.37		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Potassium	2.8	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:41	1
Zinc	0.024	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	56		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Arsenic	0.027	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Barium	0.28	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Calcium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Chromium	0.085		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Copper	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Iron	71		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:34	1
Lead	0.031		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:34	1
Magnesium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Manganese	0.35		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Nickel	0.082		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Potassium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Vanadium	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:34	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:34	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		07/26/15 17:40	07/27/15 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU	-		07/23/15 11:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Bromomethane	<0.0042	*	0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/22/15 19:31	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/22/15 19:31	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:31	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	07/23/15 07:27	07/28/15 13:07	1
2-Fluorophenol	55		25 - 110	07/23/15 07:27	07/28/15 13:07	1
Nitrobenzene-d5	54		25 - 115	07/23/15 07:27	07/28/15 13:07	1
Phenol-d5	47		31 - 110	07/23/15 07:27	07/28/15 13:07	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:07	1
2,4,6-Tribromophenol	23	X	35 - 137	07/23/15 07:27	07/28/15 13:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	2.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Antimony	0.84	J	1.1	0.23	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Arsenic	3.9		0.54	0.25	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Barium	26		0.54	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cadmium	0.19		0.11	0.031	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Chromium	17		0.54	0.093	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Cobalt	6.0		0.27	0.061	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Copper	20		0.54	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Iron	16000		11	4.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Lead	9.1		0.27	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Magnesium	34000		5.4	2.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Calcium	78000		110	35	mg/Kg	☼	07/21/15 18:01	07/25/15 01:31	10
Manganese	390		0.54	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Nickel	19		0.54	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Selenium	0.38	J	0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/25/15 01:26	1
Silver	0.066	J	0.27	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Thallium	1.1		0.54	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Vanadium	20		0.27	0.079	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Zinc	42	B	1.1	0.34	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Potassium	3100		27	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1
Sodium	290		54	7.2	mg/Kg	☼	07/21/15 18:01	07/23/15 19:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 10:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (0-5)

Lab Sample ID: 500-98751-5

Date Collected: 07/17/15 09:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Arsenic	0.014	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Calcium	580		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:46	1
Magnesium	41		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Manganese	0.76		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Potassium	3.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:46	1
Zinc	0.057	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	45		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.22	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	57		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	0.069		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	0.092		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	61		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	0.029		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	0.066		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	0.081		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.53		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	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		07/26/15 17:40	07/27/15 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		07/23/15 11:18	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0071		0.0041	0.0032	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 19:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 19:55	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/22/15 19:55	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/22/15 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[a]anthracene	0.0054	J	0.038	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[b]fluoranthene	0.010	J	0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluoranthene	0.0091	J	0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/23/15 07:27	07/28/15 13:33	1
2-Fluorophenol	57		25 - 110	07/23/15 07:27	07/28/15 13:33	1
Nitrobenzene-d5	55		25 - 115	07/23/15 07:27	07/28/15 13:33	1
Phenol-d5	57		31 - 110	07/23/15 07:27	07/28/15 13:33	1
Terphenyl-d14	82		36 - 134	07/23/15 07:27	07/28/15 13:33	1
2,4,6-Tribromophenol	34	X	35 - 137	07/23/15 07:27	07/28/15 13:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Arsenic	4.8		0.57	0.26	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Barium	32		0.57	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Chromium	17		0.57	0.098	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Cobalt	5.0		0.28	0.064	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Copper	18		0.57	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Iron	17000		11	4.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Lead	8.9		0.28	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Calcium	77000		110	37	mg/Kg	☼	07/21/15 18:01	07/25/15 01:41	10
Manganese	380		0.57	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Nickel	18		0.57	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Selenium	0.48	J	0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/25/15 01:35	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Thallium	1.2		0.57	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Vanadium	19		0.28	0.083	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Zinc	42	B	1.1	0.36	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Potassium	3000		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1
Sodium	240		57	7.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B02 (5-11)

Lab Sample ID: 500-98751-6

Date Collected: 07/17/15 09:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Copper	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:51	1
Magnesium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Manganese	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Potassium	4.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:51	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Arsenic	0.042	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:04	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Calcium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Cobalt	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Iron	110		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:04	1
Lead	0.068		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:04	1
Magnesium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Manganese	0.91		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Potassium	22		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:04	1
Zinc	0.34		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:04	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		07/26/15 17:40	07/27/15 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.39		0.200	0.200	SU	-		07/23/15 11:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0039	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	07/18/15 09:50	07/22/15 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/22/15 20:19	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/22/15 20:19	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/22/15 20:19	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/22/15 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Anthracene	0.033	J	0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[a]anthracene	0.39		0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.44		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[b]fluoranthene	0.65		0.038	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[g,h,i]perylene	0.54		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Chrysene	0.49		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluoranthene	0.78		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Fluorene	0.0087 J		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Indeno[1,2,3-cd]pyrene	0.43		0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Lab Sample ID: 500-98751-7

Date Collected: 07/17/15 10:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenanthrene	0.24		0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
Pyrene	0.90		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	07/23/15 07:27	07/28/15 16:43	1
2-Fluorophenol	53		25 - 110	07/23/15 07:27	07/28/15 16:43	1
Nitrobenzene-d5	48		25 - 115	07/23/15 07:27	07/28/15 16:43	1
Phenol-d5	51		31 - 110	07/23/15 07:27	07/28/15 16:43	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:43	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 07:27	07/28/15 16:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.9	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Arsenic	6.3		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Barium	49		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Beryllium	0.61		0.23	0.051	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cadmium	0.20		0.12	0.034	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Chromium	19		0.58	0.10	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Cobalt	8.2		0.29	0.066	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Copper	16		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Iron	18000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Lead	15		0.29	0.15	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Magnesium	24000		5.8	2.4	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Calcium	44000		12	3.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Manganese	570		0.58	0.12	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Nickel	18		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Selenium	0.77		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:45	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Thallium	1.3		0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Zinc	50	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Potassium	2000		29	4.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1
Sodium	2200		58	7.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (0-5)

Date Collected: 07/17/15 10:30

Date Received: 07/18/15 08:00

Lab Sample ID: 500-98751-7

Matrix: Solid

Percent Solids: 83.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Barium	0.42	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Calcium	600		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Copper	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:57	1
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:57	1
Zinc	0.036	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Calcium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Copper	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Iron	2.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:10	1
Magnesium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Manganese	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Potassium	3.3		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:10	1
Zinc	0.28		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:10	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		07/26/15 17:40	07/27/15 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.08		0.200	0.200	SU	-		07/23/15 11:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Benzene	<0.0036		0.0036	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromodichloromethane	<0.0036		0.0036	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromoform	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Bromomethane	<0.0036 *		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Carbon tetrachloride	<0.0036		0.0036	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chlorobenzene	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloroform	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Chloromethane	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Dibromochloromethane	<0.0036		0.0036	0.00042	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethane	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloropropane	<0.0036		0.0036	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Ethylbenzene	<0.0036		0.0036	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methylene Chloride	<0.0036		0.0036	0.0028	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Styrene	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1,2-Tetrachloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Tetrachloroethene	<0.0036 *		0.0036	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Toluene	<0.0036		0.0036	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Trichloroethene	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl acetate	<0.0036		0.0036	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Vinyl chloride	<0.0036		0.0036	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1
Xylenes, Total	<0.0073		0.0073	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 13:48	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/23/15 13:48	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 13:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[b]fluoranthene	0.055		0.038	0.0082	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Benzo[k]fluoranthene	0.039		0.038	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Chrysene	0.038		0.038	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluoranthene	0.050		0.038	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.038	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
Pyrene	0.051		0.038	0.0076	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	07/23/15 07:27	07/28/15 13:59	1
2-Fluorophenol	56		25 - 110	07/23/15 07:27	07/28/15 13:59	1
Nitrobenzene-d5	50		25 - 115	07/23/15 07:27	07/28/15 13:59	1
Phenol-d5	46		31 - 110	07/23/15 07:27	07/28/15 13:59	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/28/15 13:59	1
2,4,6-Tribromophenol	24	X	35 - 137	07/23/15 07:27	07/28/15 13:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		12	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Antimony	0.53	J	1.2	0.24	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Arsenic	7.4		0.58	0.27	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Barium	35		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cadmium	0.18		0.12	0.033	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Cobalt	12		0.29	0.065	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Copper	23		0.58	0.13	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Iron	19000		12	4.5	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Lead	12		0.29	0.14	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Magnesium	30000		5.8	2.3	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Calcium	69000		120	37	mg/Kg	☼	07/21/15 18:01	07/25/15 02:02	10
Manganese	540		0.58	0.11	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Selenium	0.46	J	0.58	0.29	mg/Kg	☼	07/21/15 18:01	07/25/15 01:50	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Vanadium	21		0.29	0.084	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Zinc	41	B	1.2	0.37	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Potassium	2700		29	4.7	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1
Sodium	1900		58	7.6	mg/Kg	☼	07/21/15 18:01	07/23/15 19:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	07/23/15 16:00	07/27/15 11:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B03 (5-11)

Lab Sample ID: 500-98751-8

Date Collected: 07/17/15 10:40

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.47		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Barium	0.23	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:02	1
Magnesium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:02	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Barium	<0.50		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Calcium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Copper	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Iron	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:17	1
Magnesium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Manganese	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Zinc	0.076	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	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		07/26/15 17:40	07/27/15 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.50		0.200	0.200	SU	-		07/23/15 11:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/18/15 09:50	07/23/15 14:12	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 14:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 14:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Anthracene	0.081		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[a]anthracene	0.37		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[b]fluoranthene	0.46		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Benzo[k]fluoranthene	0.20		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Chrysene	0.35		0.036	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenz(a,h)anthracene	0.12		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.30	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluoranthene	0.70		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Fluorene	0.013 J		0.036	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylnaphthalene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenanthrene	0.26		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
Pyrene	0.76		0.036	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	07/23/15 07:27	07/29/15 14:02	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:02	1
Nitrobenzene-d5	41		25 - 115	07/23/15 07:27	07/29/15 14:02	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:02	1
Terphenyl-d14	77		36 - 134	07/23/15 07:27	07/29/15 14:02	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/29/15 14:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600		11	2.8	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Antimony	<5.6		5.6	1.2	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Arsenic	3.3		2.8	1.3	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Barium	54		2.8	0.51	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Beryllium	0.42	J	1.1	0.24	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cadmium	0.43	J B	0.56	0.16	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Chromium	10		2.8	0.48	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Cobalt	3.3		1.4	0.32	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Copper	12		2.8	0.61	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Iron	9300		56	22	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Lead	16		1.4	0.70	mg/Kg	☼	07/21/15 18:01	07/26/15 18:07	5
Magnesium	62000		28	11	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Calcium	160000		56	18	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Manganese	470		2.8	0.55	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Nickel	10		2.8	0.76	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Selenium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Silver	<1.4		1.4	0.33	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Thallium	<2.8		2.8	1.4	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Vanadium	15		1.4	0.41	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Zinc	37	B	5.6	1.8	mg/Kg	☼	07/21/15 18:01	07/25/15 02:06	5
Potassium	910		28	4.6	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1
Sodium	1500		56	7.4	mg/Kg	☼	07/21/15 18:01	07/23/15 20:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (0-5)

Lab Sample ID: 500-98751-9

Date Collected: 07/17/15 11:05

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Calcium	1000		25	5.0	mg/L		07/26/15 17:40	07/28/15 15:33	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Cobalt	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:07	1
Magnesium	210		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Manganese	3.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Nickel	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Potassium	2.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:07	1
Zinc	0.44	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Barium	0.071	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Calcium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Iron	2.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:24	1
Magnesium	5.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Manganese	0.064		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Potassium	3.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:24	1
Zinc	0.053	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:24	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		07/26/15 17:40	07/27/15 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU	-		07/23/15 11:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Tetrachloroethene	<0.0038	*	0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/18/15 09:50	07/23/15 14:36	1
Dibromofluoromethane	102		75 - 120	07/18/15 09:50	07/23/15 14:36	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/18/15 09:50	07/23/15 14:36	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.015	J	0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[b]fluoranthene	0.029	J	0.037	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluoranthene	0.047		0.037	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenanthrene	0.034	J	0.037	0.0052	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
Pyrene	0.044		0.037	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	07/23/15 07:27	07/28/15 14:26	1
2-Fluorophenol	65		25 - 110	07/23/15 07:27	07/28/15 14:26	1
Nitrobenzene-d5	61		25 - 115	07/23/15 07:27	07/28/15 14:26	1
Phenol-d5	63		31 - 110	07/23/15 07:27	07/28/15 14:26	1
Terphenyl-d14	100		36 - 134	07/23/15 07:27	07/28/15 14:26	1
2,4,6-Tribromophenol	26	X	35 - 137	07/23/15 07:27	07/28/15 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	B	12	2.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Antimony	0.28	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Arsenic	5.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Barium	40		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cadmium	0.10	J	0.12	0.033	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Chromium	18		0.58	0.099	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Cobalt	8.2		0.29	0.065	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Lead	9.3		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Magnesium	33000		5.8	2.3	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Calcium	85000		120	37	mg/Kg	☼	07/22/15 10:00	07/26/15 19:54	10
Manganese	460		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Selenium	0.76		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Thallium	1.2		0.58	0.28	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Vanadium	22		0.29	0.084	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Zinc	41		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Potassium	3800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1
Sodium	1400		58	7.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B05 (5-11)

Lab Sample ID: 500-98751-10

Date Collected: 07/17/15 11:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Barium	0.41	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Iron	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:12	1
Magnesium	98		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Potassium	4.7	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:12	1
Zinc	0.085	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Arsenic	0.019	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Barium	0.14	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Calcium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Chromium	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Copper	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Iron	7.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:31	1
Lead	0.017		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:31	1
Magnesium	6.8		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Manganese	0.068		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Nickel	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Potassium	6.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Vanadium	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:31	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:31	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		07/26/15 17:40	07/27/15 19:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU	-		07/23/15 11:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Bromomethane	<0.0046	*	0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Tetrachloroethene	<0.0046	*	0.0046	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:00	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 15:00	1
Toluene-d8 (Surr)	99		75 - 122	07/18/15 09:50	07/23/15 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.048		0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[b]fluoranthene	0.075		0.039	0.0086	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[g,h,i]perylene	0.060		0.039	0.013	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Benzo[k]fluoranthene	0.035	J	0.039	0.012	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Chrysene	0.056		0.039	0.011	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluoranthene	0.086		0.039	0.0074	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenanthrene	0.044		0.039	0.0055	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
Pyrene	0.089		0.039	0.0079	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/23/15 07:27	07/29/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/23/15 07:27	07/29/15 14:27	1
2-Fluorophenol	45		25 - 110	07/23/15 07:27	07/29/15 14:27	1
Nitrobenzene-d5	43		25 - 115	07/23/15 07:27	07/29/15 14:27	1
Phenol-d5	44		31 - 110	07/23/15 07:27	07/29/15 14:27	1
Terphenyl-d14	74		36 - 134	07/23/15 07:27	07/29/15 14:27	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 07:27	07/29/15 14:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000	B	12	2.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Antimony	0.66	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Arsenic	8.8		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Barium	69		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Beryllium	0.91		0.24	0.051	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Chromium	24		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Cobalt	13		0.30	0.067	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Iron	25000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Lead	18		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Magnesium	7900		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Calcium	7800		12	3.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Manganese	600		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Nickel	26		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Selenium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Thallium	1.6		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Vanadium	32		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Zinc	55		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Potassium	2800		30	4.9	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1
Sodium	2100		59	7.8	mg/Kg	☼	07/22/15 10:00	07/25/15 00:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0069	mg/Kg	☼	07/23/15 16:00	07/27/15 11:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (0-5)

Lab Sample ID: 500-98751-11

Date Collected: 07/17/15 11:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Barium	0.29	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Calcium	450		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:18	1
Magnesium	86		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Nickel	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Potassium	3.6	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:18	1
Zinc	0.093	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Arsenic	0.022	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Barium	0.16	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Calcium	27		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Chromium	0.048		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cobalt	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Copper	0.075		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Iron	41		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Lead	0.026		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:37	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Manganese	0.19		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Nickel	0.050		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Potassium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Vanadium	0.055		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	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		07/26/15 17:40	07/27/15 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 13:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU	-		07/23/15 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Bromomethane	<0.0047	*	0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Tetrachloroethene	<0.0047	*	0.0047	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 15:24	1
Dibromofluoromethane	101		75 - 120	07/18/15 09:50	07/23/15 15:24	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/18/15 09:50	07/23/15 15:24	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[g,h,i]perylene	0.019	J	0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Chrysene	0.018	J	0.036	0.0098	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenanthrene	0.012	J	0.036	0.0050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
Pyrene	0.0093	J	0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	07/23/15 07:27	07/28/15 15:20	1
2-Fluorophenol	69		25 - 110	07/23/15 07:27	07/28/15 15:20	1
Nitrobenzene-d5	63		25 - 115	07/23/15 07:27	07/28/15 15:20	1
Phenol-d5	64		31 - 110	07/23/15 07:27	07/28/15 15:20	1
Terphenyl-d14	103		36 - 134	07/23/15 07:27	07/28/15 15:20	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 07:27	07/28/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.7	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Antimony	0.33	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Arsenic	6.1		0.54	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Barium	25		0.54	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Beryllium	0.61		0.22	0.047	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cadmium	0.12	B	0.11	0.032	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Chromium	13		0.54	0.094	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Cobalt	11		0.27	0.062	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Copper	23		0.54	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Iron	16000		11	4.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Lead	14		0.27	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Magnesium	29000		5.4	2.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Calcium	97000		110	35	mg/Kg	☼	07/22/15 10:00	07/26/15 20:03	10
Manganese	530		0.54	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Nickel	31		0.54	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Vanadium	15		0.27	0.080	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Zinc	71		1.1	0.34	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Potassium	2400		27	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1
Sodium	430	^	54	7.2	mg/Kg	☼	07/22/15 10:00	07/26/15 19:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0057	mg/Kg	☼	07/23/15 16:00	07/27/15 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B07 (5-11)

Lab Sample ID: 500-98751-12

Date Collected: 07/17/15 11:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 88.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:23	1
Magnesium	110		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Manganese	1.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Potassium	1.9	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:23	1
Zinc	0.040	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Barium	0.73		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:44	1
Beryllium	0.0080		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Chromium	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Cobalt	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Copper	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Iron	190		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:44	1
Lead	0.13		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:44	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:44	1
Zinc	0.67		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:44	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		07/26/15 17:40	07/27/15 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0032		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU	-		07/23/15 12:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Tetrachloroethene	<0.0043	*	0.0043	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 15:48	1
Dibromofluoromethane	100		75 - 120	07/18/15 09:50	07/23/15 15:48	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/18/15 09:50	07/23/15 15:48	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[a]anthracene	0.025	J	0.040	0.0055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.040	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[b]fluoranthene	0.035	J	0.040	0.0088	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Chrysene	0.033	J	0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluoranthene	0.039	J	0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenanthrene	0.021	J	0.040	0.0057	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
Pyrene	0.042		0.040	0.0081	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/23/15 07:27	07/28/15 15:48	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 15:48	1
Nitrobenzene-d5	59		25 - 115	07/23/15 07:27	07/28/15 15:48	1
Phenol-d5	66		31 - 110	07/23/15 07:27	07/28/15 15:48	1
Terphenyl-d14	93		36 - 134	07/23/15 07:27	07/28/15 15:48	1
2,4,6-Tribromophenol	31	X	35 - 137	07/23/15 07:27	07/28/15 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Antimony	0.29	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Arsenic	7.3		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Barium	87		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Beryllium	0.72		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cadmium	0.12	B	0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Cobalt	15		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Copper	19		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Iron	20000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Lead	44		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Magnesium	11000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Calcium	17000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Manganese	950		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Nickel	23		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Selenium	0.52	J	0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Vanadium	26		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Potassium	1600		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1
Sodium	1600	^	60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.019	0.0067	mg/Kg	☼	07/23/15 16:00	07/27/15 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (0-5)

Lab Sample ID: 500-98751-13

Date Collected: 07/17/15 12:20

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Barium	0.35	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Calcium	440		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:36	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Potassium	2.9	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:36	1
Zinc	0.048	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	91		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:51	1
Beryllium	0.0057		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Calcium	81		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Chromium	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cobalt	0.041		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Copper	0.20		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Lead	0.055		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:51	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Manganese	0.92		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Nickel	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Zinc	0.50		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	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		07/26/15 17:40	07/27/15 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU	-		07/23/15 12:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Tetrachloroethene	<0.0043	*	0.0043	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:12	1
Dibromofluoromethane	103		75 - 120	07/18/15 09:50	07/23/15 16:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 16:12	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/23/15 07:27	07/28/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	07/23/15 07:27	07/28/15 16:15	1
2-Fluorophenol	66		25 - 110	07/23/15 07:27	07/28/15 16:15	1
Nitrobenzene-d5	58		25 - 115	07/23/15 07:27	07/28/15 16:15	1
Phenol-d5	54		31 - 110	07/23/15 07:27	07/28/15 16:15	1
Terphenyl-d14	94		36 - 134	07/23/15 07:27	07/28/15 16:15	1
2,4,6-Tribromophenol	19	X	35 - 137	07/23/15 07:27	07/28/15 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Arsenic	4.4		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Beryllium	0.69		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Chromium	15		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Cobalt	9.0		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Iron	17000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Lead	10		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Magnesium	29000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Calcium	90000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:17	10
Manganese	430		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Nickel	27		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Vanadium	18		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Zinc	52		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Potassium	2700		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1
Sodium	590	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0058	mg/Kg	☼	07/23/15 16:00	07/27/15 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B09 (5-11)

Lab Sample ID: 500-98751-14

Date Collected: 07/17/15 12:30

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Barium	0.31	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Calcium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:41	1
Magnesium	96		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Manganese	0.83		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Potassium	2.5	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:41	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:58	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Calcium	19		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Cobalt	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Copper	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:58	1
Lead	0.083		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:58	1
Magnesium	21		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Manganese	0.95		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Potassium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:58	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:58	1
Zinc	0.61		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU	-		07/23/15 12:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Tetrachloroethene	<0.0038	*	0.0038	0.00080	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/18/15 09:50	07/23/15 16:37	1
Dibromofluoromethane	98		75 - 120	07/18/15 09:50	07/23/15 16:37	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/23/15 16:37	1
Toluene-d8 (Surr)	94		75 - 122	07/18/15 09:50	07/23/15 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[a]anthracene	0.044		0.040	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.038	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[b]fluoranthene	0.051		0.040	0.0086	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[g,h,i]perylene	0.050		0.040	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Benzo[k]fluoranthene	0.027	J	0.040	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Chrysene	0.049		0.040	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluoranthene	0.058		0.040	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenanthrene	0.033	J	0.040	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
Pyrene	0.066		0.040	0.0079	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/23/15 16:46	07/29/15 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/23/15 16:46	07/29/15 14:54	1
2-Fluorophenol	43		25 - 110	07/23/15 16:46	07/29/15 14:54	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/29/15 14:54	1
Phenol-d5	47		31 - 110	07/23/15 16:46	07/29/15 14:54	1
Terphenyl-d14	91		36 - 134	07/23/15 16:46	07/29/15 14:54	1
2,4,6-Tribromophenol	21	X	35 - 137	07/23/15 16:46	07/29/15 14:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	3.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Antimony	0.39	J	1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Arsenic	7.7		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Barium	64		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Beryllium	0.85		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Chromium	17		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Cobalt	12		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Copper	26		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Iron	22000		12	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Lead	51		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Magnesium	15000		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Calcium	23000		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Manganese	500		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Nickel	31		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Selenium	0.63		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Vanadium	24		0.30	0.088	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Zinc	83		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Potassium	2000		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1
Sodium	1300	A	60	8.0	mg/Kg	☼	07/22/15 10:00	07/26/15 20:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0068	mg/Kg	☼	07/23/15 16:00	07/27/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (0-5)

Lab Sample ID: 500-98751-15

Date Collected: 07/17/15 12:55

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Calcium	510		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:46	1
Magnesium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Nickel	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Potassium	4.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:46	1
Zinc	0.049	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	98		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Arsenic	0.055		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:20	1
Beryllium	0.0062		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Calcium	67		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Chromium	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Cobalt	0.049		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Iron	150		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:20	1
Lead	0.077		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:20	1
Magnesium	51		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Nickel	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Potassium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:20	1
Zinc	0.45		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0029		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	-		07/23/15 12:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Bromomethane	<0.0042 *		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Tetrachloroethene	<0.0042 *		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 17:01	1
Dibromofluoromethane	99		75 - 120	07/18/15 09:50	07/23/15 17:01	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/18/15 09:50	07/23/15 17:01	1
Toluene-d8 (Surr)	97		75 - 122	07/18/15 09:50	07/23/15 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		25 - 119	07/23/15 16:46	07/28/15 18:05	1
2-Fluorophenol	48		25 - 110	07/23/15 16:46	07/28/15 18:05	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 18:05	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/28/15 18:05	1
Terphenyl-d14	105		36 - 134	07/23/15 16:46	07/28/15 18:05	1
2,4,6-Tribromophenol	15	X	35 - 137	07/23/15 16:46	07/28/15 18:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Antimony	0.28	J	1.1	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Arsenic	5.7		0.57	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Barium	33		0.57	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Chromium	14		0.57	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Cobalt	11		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Copper	22		0.57	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Iron	18000		11	4.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Lead	11		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Magnesium	32000		5.7	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Calcium	97000		110	37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:38	10
Manganese	500		0.57	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Nickel	28		0.57	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Selenium	0.52	J	0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Vanadium	17		0.28	0.083	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Zinc	50		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Potassium	2300		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1
Sodium	820	^	57	7.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0059	mg/Kg	☼	07/23/15 16:00	07/27/15 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 (5-11)

Lab Sample ID: 500-98751-16

Date Collected: 07/17/15 13:15

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Barium	0.34	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Calcium	380		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:52	1
Magnesium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Manganese	1.5		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Nickel	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Potassium	4.1	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:52	1
Zinc	0.035	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Barium	0.093	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Calcium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Chromium	0.023	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Iron	12		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Lead	0.0087		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:27	1
Magnesium	12		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Manganese	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Nickel	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Potassium	7.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Vanadium	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Zinc	0.051	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU	-		07/23/15 12:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0044	0.0034	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Bromomethane	<0.0044 *		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Tetrachloroethene	<0.0044 *		0.0044	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/18/15 09:50	07/23/15 20:16	1
Dibromofluoromethane	108		75 - 120	07/18/15 09:50	07/23/15 20:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/18/15 09:50	07/23/15 20:16	1
Toluene-d8 (Surr)	92		75 - 122	07/18/15 09:50	07/23/15 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[a]anthracene	0.0064	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Chrysene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenanthrene	0.014	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
Pyrene	0.014	J	0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/23/15 16:46	07/29/15 15:20	1
2-Fluorophenol	61		25 - 110	07/23/15 16:46	07/29/15 15:20	1
Nitrobenzene-d5	54		25 - 115	07/23/15 16:46	07/29/15 15:20	1
Phenol-d5	57		31 - 110	07/23/15 16:46	07/29/15 15:20	1
Terphenyl-d14	124		36 - 134	07/23/15 16:46	07/29/15 15:20	1
2,4,6-Tribromophenol	33	X	35 - 137	07/23/15 16:46	07/29/15 15:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Arsenic	5.3		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Barium	33		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Chromium	14		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Cobalt	11		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Copper	22		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Iron	17000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Lead	12		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Calcium	90000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:47	10
Manganese	480		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Nickel	28		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Vanadium	17		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Zinc	57		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1
Sodium	470	^	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0062	mg/Kg	☼	07/23/15 16:00	07/27/15 11:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B11 DUP (5-11)

Lab Sample ID: 500-98751-17

Date Collected: 07/17/15 13:25

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:57	1
Magnesium	50		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Manganese	0.52		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Potassium	2.1	J B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:57	1
Zinc	0.16		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	95		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Arsenic	0.054		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:34	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Calcium	43		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Cobalt	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Iron	130		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:34	1
Lead	0.067		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:34	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Manganese	0.67		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:34	1
Zinc	0.48		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:34	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		07/26/15 17:40	07/27/15 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0028		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.24		0.200	0.200	SU	-		07/23/15 12:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0031	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromoform	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Bromomethane	<0.0039	*	0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Tetrachloroethene	<0.0039	*	0.0039	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00092	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/18/15 09:50	07/23/15 21:55	1
Dibromofluoromethane	104		75 - 120	07/18/15 09:50	07/23/15 21:55	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/18/15 09:50	07/23/15 21:55	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[a]anthracene	0.019	J	0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.022	J	0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[b]fluoranthene	0.034	J	0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluoranthene	0.022	J	0.038	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
Pyrene	0.033	J	0.038	0.0077	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/23/15 16:46	07/29/15 15:47	1
2-Fluorophenol	45		25 - 110	07/23/15 16:46	07/29/15 15:47	1
Nitrobenzene-d5	40		25 - 115	07/23/15 16:46	07/29/15 15:47	1
Phenol-d5	49		31 - 110	07/23/15 16:46	07/29/15 15:47	1
Terphenyl-d14	118		36 - 134	07/23/15 16:46	07/29/15 15:47	1
2,4,6-Tribromophenol	43		35 - 137	07/23/15 16:46	07/29/15 15:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Arsenic	6.2		0.59	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Barium	37		0.59	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Beryllium	0.69		0.23	0.051	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Chromium	14		0.59	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Copper	22		0.59	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Iron	18000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Lead	13		0.29	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Magnesium	31000		5.9	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Calcium	110000		120	38	mg/Kg	☼	07/22/15 10:00	07/26/15 20:56	10
Manganese	520		0.59	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Nickel	31		0.59	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Selenium	0.36	J	0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Vanadium	18		0.29	0.086	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Zinc	50		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Potassium	2300		29	4.8	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1
Sodium	1200	^	59	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 20:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (0-5)

Lab Sample ID: 500-98751-18

Date Collected: 07/17/15 14:00

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/23/15 16:00	07/23/15 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Calcium	460		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Cobalt	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:02	1
Magnesium	68		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Nickel	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Potassium	3.3	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:02	1
Zinc	0.032	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Arsenic	0.010	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Barium	0.13	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Calcium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Chromium	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Copper	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Iron	24		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:41	1
Lead	0.014		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:41	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Manganese	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Nickel	0.039		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Potassium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Vanadium	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:41	1
Zinc	0.081	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:41	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		07/26/15 17:40	07/27/15 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU	-		07/23/15 12:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0033	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Tetrachloroethene	<0.0042	*	0.0042	0.00088	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/18/15 09:50	07/23/15 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/18/15 09:50	07/23/15 21:07	1
Dibromofluoromethane	109		75 - 120	07/18/15 09:50	07/23/15 21:07	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/18/15 09:50	07/23/15 21:07	1
Toluene-d8 (Surr)	95		75 - 122	07/18/15 09:50	07/23/15 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dimethylphenol	<0.37	F1	0.37	0.14	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4,6-Dinitro-2-methylphenol	<0.37	F1	0.37	0.30	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.66	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:28	1
2-Fluorophenol	38		25 - 110	07/23/15 16:46	07/28/15 19:28	1
Nitrobenzene-d5	37		25 - 115	07/23/15 16:46	07/28/15 19:28	1
Phenol-d5	35		31 - 110	07/23/15 16:46	07/28/15 19:28	1
Terphenyl-d14	71		36 - 134	07/23/15 16:46	07/28/15 19:28	1
2,4,6-Tribromophenol	22	X	35 - 137	07/23/15 16:46	07/28/15 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Antimony	0.41	J	1.1	0.23	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Barium	30		0.56	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Chromium	13		0.56	0.097	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Cobalt	16		0.28	0.064	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Copper	18		0.56	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Iron	15000		11	4.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Lead	9.6		0.28	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Calcium	100000		110	36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:05	10
Manganese	390		0.56	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Nickel	29		0.56	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Selenium	0.38	J	0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Vanadium	16		0.28	0.082	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Zinc	42		1.1	0.36	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Potassium	2100		28	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1
Sodium	180	^	56	7.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0065	mg/Kg	☼	07/23/15 16:00	07/27/15 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B13 (5-11)

Lab Sample ID: 500-98751-19

Date Collected: 07/17/15 14:10

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/23/15 16:00	07/23/15 19:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Barium	0.52		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Calcium	200		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Cobalt	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:07	1
Magnesium	100		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Manganese	13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Nickel	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Potassium	5.2	B	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:07	1
Zinc	0.083	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Barium	0.10	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Calcium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Chromium	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Copper	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Iron	6.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:47	1
Lead	0.010		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:47	1
Magnesium	4.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Potassium	4.7		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Vanadium	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:47	1
Zinc	0.29		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:47	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		07/26/15 17:40	07/27/15 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU	-		07/23/15 12:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0045	0.0035	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/18/15 09:50	07/24/15 18:42	1
Dibromofluoromethane	107		75 - 120	07/18/15 09:50	07/24/15 18:42	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	07/18/15 09:50	07/24/15 18:42	1
Toluene-d8 (Surr)	116		75 - 122	07/18/15 09:50	07/24/15 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[a]anthracene	0.030	J	0.039	0.0053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Chrysene	0.037	J	0.039	0.011	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluoranthene	0.047		0.039	0.0073	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
Pyrene	0.058		0.039	0.0078	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/23/15 16:46	07/29/15 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	07/23/15 16:46	07/29/15 16:13	1
2-Fluorophenol	56		25 - 110	07/23/15 16:46	07/29/15 16:13	1
Nitrobenzene-d5	53		25 - 115	07/23/15 16:46	07/29/15 16:13	1
Phenol-d5	58		31 - 110	07/23/15 16:46	07/29/15 16:13	1
Terphenyl-d14	114		36 - 134	07/23/15 16:46	07/29/15 16:13	1
2,4,6-Tribromophenol	50		35 - 137	07/23/15 16:46	07/29/15 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Barium	53		0.58	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Beryllium	0.82		0.23	0.050	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Chromium	17		0.58	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Cobalt	13		0.29	0.066	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Copper	21		0.58	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Iron	21000		12	4.5	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Lead	20		0.29	0.14	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Magnesium	9000		5.8	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Calcium	12000		12	3.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Manganese	340		0.58	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Selenium	0.71		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Vanadium	24		0.29	0.085	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Zinc	72		1.2	0.37	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Potassium	1800		29	4.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1
Sodium	2700	A	58	7.7	mg/Kg	☼	07/22/15 10:00	07/26/15 21:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0064	mg/Kg	☼	07/23/15 16:00	07/27/15 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (0-5)

Lab Sample ID: 500-98751-20

Date Collected: 07/17/15 14:35

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 83.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Barium	0.21	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Calcium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Cobalt	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Iron	0.22		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:17	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Manganese	5.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Nickel	0.020	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:17	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Arsenic	0.045	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Barium	0.83		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:27	1
Beryllium	0.0098		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cadmium	0.0051		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Calcium	25		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Cobalt	0.094		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Copper	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Iron	240		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:27	1
Lead	0.14		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:16	5
Magnesium	48		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Manganese	2.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Nickel	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Potassium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:27	1
Zinc	0.71		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:27	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		07/26/15 17:40	07/27/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0048		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU	-		07/23/15 12:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0055	0.0042	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/18/15 09:50	07/24/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/18/15 09:50	07/24/15 19:06	1
Dibromofluoromethane	106		75 - 120	07/18/15 09:50	07/24/15 19:06	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/18/15 09:50	07/24/15 19:06	1
Toluene-d8 (Surr)	115		75 - 122	07/18/15 09:50	07/24/15 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/23/15 16:46	07/28/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		25 - 119	07/23/15 16:46	07/28/15 19:56	1
2-Fluorophenol	46		25 - 110	07/23/15 16:46	07/28/15 19:56	1
Nitrobenzene-d5	41		25 - 115	07/23/15 16:46	07/28/15 19:56	1
Phenol-d5	44		31 - 110	07/23/15 16:46	07/28/15 19:56	1
Terphenyl-d14	99		36 - 134	07/23/15 16:46	07/28/15 19:56	1
2,4,6-Tribromophenol	25	X	35 - 137	07/23/15 16:46	07/28/15 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		12	2.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Antimony	<1.2		1.2	0.25	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Arsenic	9.6		0.60	0.28	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Barium	67		0.60	0.11	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Beryllium	0.95		0.24	0.052	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Chromium	22		0.60	0.10	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Cobalt	13		0.30	0.068	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Copper	23		0.60	0.13	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Iron	28000		12	4.6	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Lead	17		0.30	0.15	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Magnesium	4800		6.0	2.4	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Calcium	2200		12	3.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Manganese	470		0.60	0.12	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Nickel	41		0.60	0.16	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Selenium	0.45 J		0.60	0.30	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Thallium	0.29 J		0.60	0.29	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Vanadium	29		0.30	0.087	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Zinc	80		1.2	0.38	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Potassium	2500		30	4.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1
Sodium	970 ^		60	7.9	mg/Kg	☼	07/22/15 10:00	07/26/15 21:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0063	mg/Kg	☼	07/23/15 16:00	07/24/15 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-B15 (5-11)

Lab Sample ID: 500-98751-21

Date Collected: 07/17/15 14:45

Matrix: Solid

Date Received: 07/18/15 08:00

Percent Solids: 81.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0050	0.0013	mg/L			07/21/15 16:01	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 16:01	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 16:01	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 16:01	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 16:01	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 16:01	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 16:01	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 16:01	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 16:01	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 16:01	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 16:01	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 16:01	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 16:01	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 16:01	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 16:01	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 16:01	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 16:01	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 16:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 16:01	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 16:01	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 16:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 16:01	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 16:01	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 16:01	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 16:01	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 16:01	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 16:01	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 16:01	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		07/21/15 16:01	1
Dibromofluoromethane	93		75 - 120		07/21/15 16:01	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		07/21/15 16:01	1
Toluene-d8 (Surr)	98		75 - 120		07/21/15 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Acenaphthylene	<0.00074		0.00074	0.00020	mg/L		07/23/15 08:37	07/27/15 19:27	1
Anthracene	<0.00074		0.00074	0.00025	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[a]anthracene	0.0011		0.00012	0.000042	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0017		0.00015	0.000073	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[b]fluoranthene	0.0023		0.00015	0.000060	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[g,h,i]perylene	0.0013		0.00074	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Benzo[k]fluoranthene	0.00099		0.00015	0.000047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00021	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Bis(2-ethylhexyl) phthalate	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Bromophenyl phenyl ether	<0.0037		0.0037	0.00040	mg/L		07/23/15 08:37	07/27/15 19:27	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00035	mg/L		07/23/15 08:37	07/27/15 19:27	1
Carbazole	<0.0037		0.0037	0.00026	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloroaniline	<0.0074		0.0074	0.0015	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chloro-3-methylphenol	<0.0074		0.0074	0.0017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chloronaphthalene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Chlorophenol	<0.0037		0.0037	0.00041	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Chlorophenyl phenyl ether	<0.0037		0.0037	0.00047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Chrysene	0.0016		0.00037	0.000050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenz(a,h)anthracene	0.00028		0.00022	0.000037	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dibenzofuran	<0.0015		0.0015	0.00019	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2-Dichlorobenzene	<0.0015		0.0015	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,3-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,4-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/23/15 08:37	07/27/15 19:27	1
3,3'-Dichlorobenzidine	<0.0037		0.0037	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
Diethyl phthalate	<0.0015		0.0015	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dimethylphenol	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
Dimethyl phthalate	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-butyl phthalate	<0.0037		0.0037	0.00054	mg/L		07/23/15 08:37	07/27/15 19:27	1
4,6-Dinitro-2-methylphenol	<0.015	*	0.015	0.0044	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrophenol	<0.015	*	0.015	0.0063	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4-Dinitrotoluene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,6-Dinitrotoluene	<0.00037		0.00037	0.000054	mg/L		07/23/15 08:37	07/27/15 19:27	1
Di-n-octyl phthalate	<0.0074		0.0074	0.00077	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluoranthene	0.0022		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Fluorene	<0.00074		0.00074	0.00018	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobenzene	<0.00037		0.00037	0.000059	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorobutadiene	<0.0037		0.0037	0.00038	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachlorocyclopentadiene	<0.015		0.015	0.0047	mg/L		07/23/15 08:37	07/27/15 19:27	1
Hexachloroethane	<0.0037		0.0037	0.00044	mg/L		07/23/15 08:37	07/27/15 19:27	1
Indeno[1,2,3-cd]pyrene	0.0011		0.00015	0.000055	mg/L		07/23/15 08:37	07/27/15 19:27	1
Isophorone	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylnaphthalene	<0.00037		0.00037	0.000048	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Methylphenol	<0.0015		0.0015	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
Naphthalene	<0.00074		0.00074	0.00023	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitroaniline	<0.0037		0.0037	0.00095	mg/L		07/23/15 08:37	07/27/15 19:27	1
3-Nitroaniline	<0.0074		0.0074	0.0013	mg/L		07/23/15 08:37	07/27/15 19:27	1
4-Nitroaniline	<0.0074		0.0074	0.0012	mg/L		07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene	<0.00074		0.00074	0.00033	mg/L		07/23/15 08:37	07/27/15 19:27	1
2-Nitrophenol	<0.0074		0.0074	0.0018	mg/L		07/23/15 08:37	07/27/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: 2682-4-G01

Lab Sample ID: 500-98751-22

Date Collected: 07/17/15 15:20

Matrix: Water

Date Received: 07/18/15 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0055	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodi-n-propylamine	<0.00037		0.00037	0.00011	mg/L		07/23/15 08:37	07/27/15 19:27	1
N-Nitrosodiphenylamine	<0.00074		0.00074	0.00027	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00028	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pentachlorophenol	<0.015	*	0.015	0.0029	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenanthrene	0.00045	J	0.00074	0.00022	mg/L		07/23/15 08:37	07/27/15 19:27	1
Phenol	<0.0037		0.0037	0.00050	mg/L		07/23/15 08:37	07/27/15 19:27	1
Pyrene	0.0018		0.00074	0.00031	mg/L		07/23/15 08:37	07/27/15 19:27	1
1,2,4-Trichlorobenzene	<0.0015		0.0015	0.00017	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,5-Trichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/23/15 08:37	07/27/15 19:27	1
2,4,6-Trichlorophenol	<0.0037		0.0037	0.00053	mg/L		07/23/15 08:37	07/27/15 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		41 - 132				07/23/15 08:37	07/27/15 19:27	1
2-Fluorophenol	56		32 - 110				07/23/15 08:37	07/27/15 19:27	1
Nitrobenzene-d5	76		47 - 134				07/23/15 08:37	07/27/15 19:27	1
Phenol-d5	46		25 - 100				07/23/15 08:37	07/27/15 19:27	1
Terphenyl-d14	87		59 - 150				07/23/15 08:37	07/27/15 19:27	1
2,4,6-Tribromophenol	87		53 - 150				07/23/15 08:37	07/27/15 19:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		0.50	0.27	mg/L		07/21/15 09:30	07/21/15 22:26	5
Antimony	<0.0030		0.0030	0.0010	mg/L		07/21/15 09:30	07/23/15 22:54	1
Arsenic	0.23		0.0050	0.0022	mg/L		07/21/15 09:30	07/21/15 22:26	5
Barium	1.1		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Beryllium	0.012		0.0010	0.00024	mg/L		07/21/15 09:30	07/28/15 16:31	1
Cadmium	0.0073		0.0025	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Calcium	840	B	1.0	0.53	mg/L		07/21/15 09:30	07/21/15 22:26	5
Chromium	0.11		0.025	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Cobalt	0.15		0.0050	0.00095	mg/L		07/21/15 09:30	07/21/15 22:26	5
Copper	0.83		0.0020	0.00096	mg/L		07/21/15 09:30	07/28/15 16:31	1
Iron	140		0.50	0.13	mg/L		07/21/15 09:30	07/21/15 22:26	5
Lead	0.62		0.0025	0.00071	mg/L		07/21/15 09:30	07/21/15 22:26	5
Magnesium	380		2.0	0.83	mg/L		07/21/15 09:30	07/23/15 22:58	10
Manganese	1.9		0.013	0.0050	mg/L		07/21/15 09:30	07/21/15 22:26	5
Nickel	0.45		0.010	0.0026	mg/L		07/21/15 09:30	07/21/15 22:26	5
Potassium	28		2.5	0.95	mg/L		07/21/15 09:30	07/21/15 22:26	5
Selenium	0.017		0.013	0.0042	mg/L		07/21/15 09:30	07/21/15 22:26	5
Silver	0.0020		0.00050	0.000080	mg/L		07/21/15 09:30	07/23/15 22:54	1
Sodium	95		0.20	0.088	mg/L		07/21/15 09:30	07/28/15 16:31	1
Thallium	0.017		0.010	0.0030	mg/L		07/21/15 09:30	07/21/15 22:26	5
Vanadium	0.25		0.025	0.011	mg/L		07/21/15 09:30	07/21/15 22:26	5
Zinc	2.4	B	0.10	0.023	mg/L		07/21/15 09:30	07/21/15 22:26	5

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	*	0.00020	0.000061	mg/L		07/22/15 15:00	07/23/15 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-98751-23

Date Collected: 07/17/15 00:00

Matrix: Water

Date Received: 07/18/15 08:00

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0013	mg/L			07/21/15 13:46	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/21/15 13:46	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/21/15 13:46	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/21/15 13:46	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/21/15 13:46	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/21/15 13:46	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/21/15 13:46	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/21/15 13:46	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/21/15 13:46	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/21/15 13:46	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/21/15 13:46	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/21/15 13:46	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/21/15 13:46	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/21/15 13:46	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/21/15 13:46	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/21/15 13:46	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/21/15 13:46	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/21/15 13:46	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/21/15 13:46	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/21/15 13:46	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/21/15 13:46	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/21/15 13:46	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/21/15 13:46	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/21/15 13:46	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/21/15 13:46	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/21/15 13:46	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/21/15 13:46	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/21/15 13:46	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/21/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 120		07/21/15 13:46	1
Dibromofluoromethane	96		75 - 120		07/21/15 13:46	1
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		07/21/15 13:46	1
Toluene-d8 (Surr)	95		75 - 120		07/21/15 13:46	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98751-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
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Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 135 Ambassador Drive
Address:
Phone: 630-717-4263
Fax: 630-357-9489
E-Mail: matt.weisse@terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone: 500-98751 COC
Fax:
PO#/Reference#



Chain of Custody Record

Lab Job #: 500-98751
Chain of Custody Number:
Page _____ of _____
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Project Location/State		Lab Project #		Lab PM					
Sample ID		Sampling		# of Containers		Matrix					
Lab ID	MIS/MSD	Date	Time								
1		7/17/15	9:55	5	S	✓	✓	✓	✓	✓	
2		7/17/15	10:05	5	S	✓	✓	✓	✓	✓	
3		7/17/15	8:45	5	S	✓	✓	✓	✓	✓	
4		7/17/15	9:00	5	S	✓	✓	✓	✓	✓	
5		7/17/15	9:15	5	S	✓	✓	✓	✓	✓	
6		7/17/15	9:25	5	S	✓	✓	✓	✓	✓	
7		7/17/15	10:30	5	S	✓	✓	✓	✓	✓	
8		7/17/15	10:40	5	S	✓	✓	✓	✓	✓	
9		7/17/15	11:05	5	S	✓	✓	✓	✓	✓	
10		7/17/15	11:15	5	S	✓	✓	✓	✓	✓	

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

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

Relinquished By: <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>7/17/15</u> Time: <u>1556</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1556</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1850</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/18/15</u> Time: <u>0800</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: _____
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: ILTACO

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____ Bill To (optional) _____
 Contact: Matt Weiss Contact: _____
 Company: Terracon Company: _____
 Address: 135 Ambassador Dr Address: _____
 Address: Naperville, IL 60590 Address: _____
 Phone: 630-717-4263 Phone: _____
 Fax: 630-357-9489 Fax: _____
 E-Mail: matt.weiss@terracon.com PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-98751
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sampler		Lab Project #		Lab PM		Preservative Key	
<u>Terracon</u>		<u>11157102</u>						<u>And Kelly</u>						1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Sampling		# of Containers		Matrix		Date		Time		Comments	
<u>WORK order #2</u>		<u>Norwalk, IL</u>													
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix									
<u>11</u>		<u>2682-4-807 (0-5)</u>	<u>7/17/15</u>	<u>11:45</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>12</u>		<u>2682-4-807 (5-11)</u>	<u>7/17/15</u>	<u>11:55</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>13</u>		<u>2682-4-809 (0-5)</u>	<u>7/17/15</u>	<u>12:20</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>14</u>		<u>2682-4-809 (5-11)</u>	<u>7/17/15</u>	<u>12:30</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>15</u>		<u>2682-4-811 (0-5)</u>	<u>7/17/15</u>	<u>12:55</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>16</u>		<u>2682-4-811 (5-11)</u>	<u>7/17/15</u>	<u>1:15</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>17</u>		<u>2682-4-811 Dup (5-11)</u>	<u>7/17/15</u>	<u>1:25</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>18</u>		<u>2682-4-813 (0-5)</u>	<u>7/17/15</u>	<u>2:00</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>19</u>		<u>2682-4-813 (5-11)</u>	<u>7/17/15</u>	<u>2:10</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>20</u>							<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>7/17/15</u> Time: <u>1602</u>	Received By: <u>J. Neal</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1602</u>
Relinquished By: <u>J. Neal</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1850</u>	Received By: <u>J. Neal</u> Company: <u>TA</u> Date: <u>7/18/15</u> Time: <u>0900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: _____
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.6211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 135 Ambassador Dr
Nashville, TN 37203
 Phone: 615-212-4263
 Fax: 615-297-4489
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-98751
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sampler		Lab Project #		Lab PM		Preservative Key	
1		1157102						Candkey						1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Date		Time		# of Containers		Matrix		Comments			
Work order #2		Nashbrook IL		7/17/15		2:35		5 5		voes					
MS/MSD		Sample ID		Date		Time		# of Containers		Matrix		Comments			
20		2682-4-B15 (0-5)		7/17/15		2:35		5 5		voes					
21		2682-4-B15 (5-11)		7/17/15		2:45		5 1		voes					

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>Candkey</u>	Company: <u>Terracon</u>	Date: <u>7/17/15</u>	Time: <u>1605</u>	Received By: <u>J. Neal</u>	Company: <u>TA</u>	Date: <u>7/17/15</u>	Time: <u>1605</u>
Relinquished By: <u>J. Neal</u>	Company: <u>TA</u>	Date: <u>7/17/15</u>	Time: <u>1850</u>	Received By: <u>J. Neal</u>	Company: <u>TA</u>	Date: <u>7/18/15</u>	Time: <u>0800</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
 Shipped: _____
 Hand Delivered: _____

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

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Perricon
 Address: 135 Anderson Ln
Norville IL 60550
 Phone: 630-717-4263
 Fax: 630-757-1989
 E-Mail: Matt.Weiss@perricon.com

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

Chain of Custody Record

Lab Job #: 500-98751
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative																Preservative Key		
Project Name		Lab Project #		Parameter																1. HCL, Cool to 4°		
Project Location/State		Lab PM																		2. H2SO4, Cool to 4°		
Sampler																				3. HNO3, Cool to 4°		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	WCS	SWS	Total 24 tests												Comments	
			Date	Time																		
28		2082-4-601	7/17/15	7:20	6	W	✓	✓	✓													
28		Trip blank					✓															

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

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

Relinquished By: <u>Handley</u> Company: <u>Perricon</u> Date: <u>7/17/15</u> Time: <u>1620</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1610</u>	Lab Courier: _____
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/17/15</u> Time: <u>1850</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/18/15</u> Time: <u>0900</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

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

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98751-2

Login Number: 98751
List Number: 1
Creator: James, Jeff A

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3, 2.9, 3.9
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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-98820-1
Client Project/Site: IDOT - Northbrook - WO 002

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
7/31/2015 2:51:10 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	30
Client Sample Results	31
Definitions	169
Chain of Custody	170
Receipt Checklists	173

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Job ID: 500-98820-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98820-1

Receipt

The samples were received on 7/21/2015 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 2.9° C and 3.3° C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: 2-Fluorophenol and Phenol-d5 surrogate recoveries for the following sample were outside the upper control limit: 2682-4-B20 (5-11) (500-98820-5). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: 2682-4-B23 (5-11) (500-98820-11). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2682-4-B20 (0-5) (500-98820-4) and 2682-4-B27 (0-5) (500-98820-13). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: 2682-4-B22 Dup (0-4) (500-98820-9). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid and one base surrogate outside acceptance limits: 2682-4-B31 (0-4) (500-98820-23). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: 2682-4-B30 (0-4) (500-98820-21), 2682-4-B30 Dup (0-4) (500-98820-22) and 2682-4-B31 (0-4) (500-98820-23). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.0091	J	0.037	0.0062	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.037	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.037	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.049		0.037	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.043		0.037	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.084		0.037	0.0069	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.0096	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.037		0.037	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.067		0.037	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	9300		11	2.7	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.49	J F1 B	1.1	0.23	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	5.1	F1	0.55	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	30	F2 F1	0.55	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.047	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	16	F1	0.55	0.094	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	7.1		0.27	0.062	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	18	F1	0.55	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	10	F2 F1	0.27	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	32000		5.5	2.2	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	80000		110	35	mg/Kg	10	☼	☼	6010B	Total/NA
Manganese	430	F2	0.55	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	21		0.55	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.54	J F1	0.55	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	19	F1	0.27	0.080	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	45	F1	1.1	0.35	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	3200		27	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	780	F1	55	7.2	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	290		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	64		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	120		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.067		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.76	F1	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0075		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.042		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.074		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.79		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4) (Continued)

Lab Sample ID: 500-98820-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.68	B F1	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.020		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.55		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0094	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Aluminum	7200		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.70	J B	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	720		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.80		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	420		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.26		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.018	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.071		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5) (Continued)

Lab Sample ID: 500-98820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	51		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.57	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.016	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.7		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	1.9		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.056	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	7.2		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11) (Continued)

Lab Sample ID: 500-98820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.1		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.054	J B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0047	0.0037	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.011	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.035	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.24		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.51		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	13000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.32	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	57		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J B	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.7		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.61		0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5) (Continued)

Lab Sample ID: 500-98820-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.062		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Vanadium	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.48		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	77		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0045		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	93		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.56	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.079		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0097	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.36	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.4		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11) (Continued)

Lab Sample ID: 500-98820-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.62		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	46		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.027	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	54		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.072		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	56		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.080		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.076		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	15000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.56	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5) (Continued)

Lab Sample ID: 500-98820-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	80		0.61	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.82		0.25	0.053	mg/Kg	1		☼	6010B	Total/NA
Chromium	23		0.61	0.11	mg/Kg	1		☼	6010B	Total/NA
Cobalt	15		0.31	0.069	mg/Kg	1		☼	6010B	Total/NA
Copper	19		0.61	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	24000		12	4.7	mg/Kg	1		☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	4600		6.1	2.5	mg/Kg	1		☼	6010B	Total/NA
Calcium	2500		12	3.9	mg/Kg	1		☼	6010B	Total/NA
Manganese	700		0.61	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	25		0.61	0.17	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.70		0.61	0.30	mg/Kg	1		☼	6010B	Total/NA
Vanadium	29		0.31	0.090	mg/Kg	1		☼	6010B	Total/NA
Zinc	56		1.2	0.39	mg/Kg	1		☼	6010B	Total/NA
Potassium	2400		31	5.0	mg/Kg	1		☼	6010B	Total/NA
Sodium	930		61	8.1	mg/Kg	1		☼	6010B	Total/NA
Aluminum	2.0		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	90		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.78		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.064		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.97		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0095		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.088		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.85	B	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.048		0.018	0.0064	mg/Kg	1		☼	7471B	Total/NA
pH	8.48		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11) (Continued)

Lab Sample ID: 500-98820-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9400		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.48	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.1		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	700		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.6		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.3		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	9.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.1		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.35	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.82		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.025	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4) (Continued)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.064		0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.17		0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.25		0.038	0.0072	mg/Kg	1	*	*	8270D	Total/NA
Fluorene	0.0082	J	0.038	0.0054	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.010	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.087		0.038	0.0054	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.28		0.038	0.0077	mg/Kg	1	*	*	8270D	Total/NA
Aluminum	8500		12	2.9	mg/Kg	1	*	*	6010B	Total/NA
Antimony	0.44	J B	1.2	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	5.9		0.59	0.27	mg/Kg	1	*	*	6010B	Total/NA
Barium	34		0.59	0.11	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.55		0.24	0.051	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.051	J	0.12	0.034	mg/Kg	1	*	*	6010B	Total/NA
Chromium	15		0.59	0.10	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	9.6		0.30	0.067	mg/Kg	1	*	*	6010B	Total/NA
Copper	20		0.59	0.13	mg/Kg	1	*	*	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	*	*	6010B	Total/NA
Lead	20		0.30	0.15	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	*	*	6010B	Total/NA
Calcium	82000		120	38	mg/Kg	10	*	*	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	*	*	6010B	Total/NA
Nickel	22		0.59	0.16	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.61		0.59	0.29	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	18		0.30	0.086	mg/Kg	1	*	*	6010B	Total/NA
Zinc	51		1.2	0.37	mg/Kg	1	*	*	6010B	Total/NA
Potassium	3000		30	4.8	mg/Kg	1	*	*	6010B	Total/NA
Sodium	690		59	7.8	mg/Kg	1	*	*	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.13		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	92		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.057		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.63		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	53		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	36		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.76		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4) (Continued)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0020		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0090	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.060		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.062		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.073		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.23		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9700		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.55	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.3		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.75		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.26		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	88		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4) (Continued)

Lab Sample ID: 500-98820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.052		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	66		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.099		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	41		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.67	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019	F2	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	18000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.50	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	69		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32		0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5) (Continued)

Lab Sample ID: 500-98820-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	200		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.063		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.95		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0099		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.066		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.70	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0031		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.11		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7800		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.45	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.9		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	470		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11) (Continued)

Lab Sample ID: 500-98820-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.51		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0041		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.095		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	82		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.093		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.047		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.72		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.44	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.9		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.5	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	78000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.5		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4) (Continued)

Lab Sample ID: 500-98820-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	83		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.040	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.58		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	59		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.025		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015		0.0050	0.0038	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.018	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.074		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.093		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.067		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.066		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.081		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.29		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Aluminum	17000		12	3.1	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.94		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	4.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5) (Continued)

Lab Sample ID: 500-98820-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	370		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.12	J B	0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	16		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	200		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.088		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.3		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.77	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0043		0.0020	0.0020	mg/L	1		6020A	SPLP East
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8800		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11) (Continued)

Lab Sample ID: 500-98820-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	15		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.0		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0055		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	240		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	63		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.030	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0041		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.096		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	75		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.66	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.060		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.64	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5) (Continued)

Lab Sample ID: 500-98820-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.96		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5900		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2.7		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	84		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.074		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.93		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0096		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.081		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0037		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.034		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0098		0.0046	0.0036	mg/Kg	1	☼	8260B	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11) (Continued)

Lab Sample ID: 500-98820-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.40	J B	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.0		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.58		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Chromium	16		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	5.0		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	9.9		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	85000		110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	380		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	20		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.41	J	0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.29	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	300		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.55		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.43		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	97		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.060		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.53		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0065		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.043		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.066		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	45		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.79		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.41	B	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.048		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5) (Continued)

Lab Sample ID: 500-98820-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9800		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.26	J B	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	4.5		0.55	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	37		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.55	0.095	mg/Kg	1		☼	6010B	Total/NA
Cobalt	5.8		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	16		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	7.5		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	27000		5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.50	J	0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1		☼	6010B	Total/NA
Zinc	35		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	3300		28	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	230		55	7.3	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.32		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.016	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.065		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.069		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	48		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.019		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.053		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.074		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.36	B	0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.020		0.019	0.0067	mg/Kg	1		☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11) (Continued)

Lab Sample ID: 500-98820-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.0081	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.45	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	520		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	21		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0085		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.43	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.052		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5) (Continued)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.10		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.054		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.048		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.080		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.046		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.095		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Aluminum	15000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.49	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.90		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	5200		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	730		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	170		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.068		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5) (Continued)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.74	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0036		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.58		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9700		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.50	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.089	J B	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	81		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.67		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	95		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11) (Continued)

Lab Sample ID: 500-98820-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.056		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0061		0.0045	0.0035	mg/Kg	1	☼	8260B	Total/NA
Aluminum	11000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.46	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.8		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.84		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	70		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.026	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0046		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4) (Continued)

Lab Sample ID: 500-98820-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.070		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.013	J	0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.80		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.43	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0055		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4) (Continued)

Lab Sample ID: 500-98820-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.078		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	55		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.075		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.18		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018		0.016	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.75		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.053		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.088		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.063		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	91000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	440		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.96		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4) (Continued)

Lab Sample ID: 500-98820-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.9		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.023	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	52		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.083		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	78		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.092		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.33		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.58		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98820-1	2682-4-B17 (0-4)	Solid	07/20/15 09:30	07/21/15 11:00
500-98820-2	2682-4-B19 (0-5)	Solid	07/20/15 09:50	07/21/15 11:00
500-98820-3	2682-4-B19 (5-11)	Solid	07/20/15 10:00	07/21/15 11:00
500-98820-4	2682-4-B20 (0-5)	Solid	07/20/15 16:20	07/21/15 11:00
500-98820-5	2682-4-B20 (5-11)	Solid	07/20/15 16:30	07/21/15 11:00
500-98820-6	2682-4-B21 (0-5)	Solid	07/20/15 10:20	07/21/15 11:00
500-98820-7	2682-4-B21 (5-11)	Solid	07/20/15 10:25	07/21/15 11:00
500-98820-8	2682-4-B22 (0-4)	Solid	07/20/15 15:50	07/21/15 11:00
500-98820-9	2682-4-B22 Dup (0-4)	Solid	07/20/15 15:55	07/21/15 11:00
500-98820-10	2682-4-B23 (0-5)	Solid	07/20/15 10:45	07/21/15 11:00
500-98820-11	2682-4-B23 (5-11)	Solid	07/20/15 10:50	07/21/15 11:00
500-98820-12	2682-4-B25 (0-4)	Solid	07/20/15 11:10	07/21/15 11:00
500-98820-13	2682-4-B27 (0-5)	Solid	07/20/15 11:30	07/21/15 11:00
500-98820-14	2682-4-B27 (5-11)	Solid	07/20/15 11:35	07/21/15 11:00
500-98820-15	2682-4-B26 (0-5)	Solid	07/20/15 15:20	07/21/15 11:00
500-98820-16	2682-4-B26 (5-11)	Solid	07/20/15 15:30	07/21/15 11:00
500-98820-17	2682-4-B28 (0-5)	Solid	07/20/15 14:55	07/21/15 11:00
500-98820-18	2682-4-B28 (5-11)	Solid	07/20/15 15:00	07/21/15 11:00
500-98820-19	2682-4-B29 (0-5)	Solid	07/20/15 11:55	07/21/15 11:00
500-98820-20	2682-4-B29 (5-11)	Solid	07/20/15 12:05	07/21/15 11:00
500-98820-21	2682-4-B30 (0-4)	Solid	07/20/15 14:25	07/21/15 11:00
500-98820-22	2682-4-B30 Dup (0-4)	Solid	07/20/15 14:30	07/21/15 11:00
500-98820-23	2682-4-B31 (0-4)	Solid	07/20/15 12:25	07/21/15 11:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:43	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Barium	0.23	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:43	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:43	1
Calcium	290		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:43	1
Magnesium	64		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Manganese	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Potassium	2.4	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:43	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Zinc	0.030	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:10	1
Arsenic	0.067		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Barium	0.76	F1	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:10	1
Beryllium	0.0075		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:10	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:10	1
Calcium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Chromium	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Cobalt	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Copper	0.19		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Iron	160		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:10	1
Lead	0.074		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:10	1
Magnesium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Nickel	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Potassium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Vanadium	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Zinc	0.68	B F1	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:10	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		07/26/15 17:40	07/27/15 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0033		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.55		0.200	0.200	SU	-		07/23/15 13:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/22/15 18:24	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	07/21/15 13:45	07/22/15 18:24	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/22/15 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Anthracene	0.0091	J	0.037	0.0062	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[a]anthracene	0.044		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.040		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[b]fluoranthene	0.049		0.037	0.0080	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-chloroethyl)ether	<0.19	F1 F2	0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Chrysene	0.043		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,2-Dichlorobenzene	<0.19	F1	0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dimethyl phthalate	<0.19	F1	0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Fluoranthene	0.084		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorobutadiene	<0.19	F2 F1	0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorocyclopentadiene	<0.75	F1	0.75	0.21	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachloroethane	<0.19	F1 F2	0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.0096	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Isophorone	<0.19	F2	0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Methylphenol	<0.19	F1 F2	0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Nitroaniline	<0.37	F1 F2	0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Nitrophenol	<0.37	F2	0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
N-Nitrosodi-n-propylamine	<0.19	F2	0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,2'-oxybis[1-chloropropane]	<0.19	F2	0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Pentachlorophenol	<0.75	F1	0.75	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Phenanthrene	0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Phenol	<0.19	F1 F2	0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Pyrene	0.067		0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,2,4-Trichlorobenzene	<0.19	F1	0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119				07/24/15 07:07	07/28/15 20:52	1
2-Fluorophenol	69		25 - 110				07/24/15 07:07	07/28/15 20:52	1
Nitrobenzene-d5	75		25 - 115				07/24/15 07:07	07/28/15 20:52	1
Phenol-d5	75		31 - 110				07/24/15 07:07	07/28/15 20:52	1
Terphenyl-d14	78		36 - 134				07/24/15 07:07	07/28/15 20:52	1
2,4,6-Tribromophenol	40		35 - 137				07/24/15 07:07	07/28/15 20:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Antimony	0.49	J F1 B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Arsenic	5.1	F1	0.55	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Barium	30	F2 F1	0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Cadmium	<0.11	F1	0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Chromium	16	F1	0.55	0.094	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Cobalt	7.1		0.27	0.062	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Copper	18	F1	0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Iron	16000		11	4.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Lead	10	F2 F1	0.27	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Magnesium	32000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Calcium	80000		110	35	mg/Kg	☼	07/23/15 10:00	07/27/15 04:25	10
Manganese	430	F2	0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Nickel	21		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Selenium	0.54	J F1	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 00:48	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Thallium	<0.55	F1	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 00:48	1
Vanadium	19	F1	0.27	0.080	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Zinc	45	F1	1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Potassium	3200		27	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Sodium	780	F1	55	7.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Date Collected: 07/20/15 09:30

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-1

Matrix: Solid

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/27/15 14:15	07/27/15 16:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:47	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:47	1
Calcium	420		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Iron	0.26		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:47	1
Magnesium	67		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Manganese	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Potassium	0.93	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Zinc	0.054	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:53	1
Arsenic	0.018	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:53	1
Calcium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Chromium	0.062		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Cobalt	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Copper	0.071		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Iron	51		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:53	1
Lead	0.020		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:53	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Manganese	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Nickel	0.049		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Potassium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:53	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Vanadium	0.076		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Zinc	0.57	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:53	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		07/26/15 17:40	07/27/15 19:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU	-		07/23/15 13:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/22/15 18:48	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/21/15 13:45	07/22/15 18:48	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/22/15 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Pyrene	0.0094	J	0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	07/24/15 07:07	07/28/15 21:17	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/28/15 21:17	1
Nitrobenzene-d5	86		25 - 115	07/24/15 07:07	07/28/15 21:17	1
Phenol-d5	80		31 - 110	07/24/15 07:07	07/28/15 21:17	1
Terphenyl-d14	89		36 - 134	07/24/15 07:07	07/28/15 21:17	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/28/15 21:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7200		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Antimony	0.70	J B	1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Arsenic	11		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Barium	30		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Beryllium	0.47		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Cadmium	0.081	J	0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Chromium	12		0.57	0.098	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Cobalt	9.5		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Copper	23		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Iron	28000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Lead	14		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Magnesium	38000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Calcium	110000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 04:58	10
Manganese	720		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Nickel	22		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Selenium	0.80		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:12	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:12	1
Vanadium	16		0.28	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Zinc	81		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Potassium	2200		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Sodium	330		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0065	mg/Kg	☼	07/27/15 18:45	07/28/15 11:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Date Collected: 07/20/15 09:50

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-2

Matrix: Solid

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	07/27/15 14:15	07/27/15 16:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:51	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Barium	0.54		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:51	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:51	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Iron	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:51	1
Magnesium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Nickel	0.026		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Potassium	4.0		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:59	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Barium	0.056	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:59	1
Calcium	7.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Iron	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:59	1
Magnesium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Manganese	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:59	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Zinc	0.054	J B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:59	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		07/26/15 17:40	07/27/15 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU	-		07/23/15 13:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0044	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromodichloromethane	<0.0057		0.0057	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chlorobenzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Dibromochloromethane	<0.0057		0.0057	0.00065	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/22/15 19:12	1
Dibromofluoromethane	105		75 - 120	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/21/15 13:45	07/22/15 19:12	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/22/15 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[a]anthracene	0.016	J	0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	07/24/15 07:07	07/28/15 21:42	1
2-Fluorophenol	65		25 - 110	07/24/15 07:07	07/28/15 21:42	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/28/15 21:42	1
Phenol-d5	77		31 - 110	07/24/15 07:07	07/28/15 21:42	1
Terphenyl-d14	75		36 - 134	07/24/15 07:07	07/28/15 21:42	1
2,4,6-Tribromophenol	47		35 - 137	07/24/15 07:07	07/28/15 21:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Antimony	<1.1		1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Arsenic	7.5		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Barium	28		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Chromium	16		0.57	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Cobalt	11		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Copper	20		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Iron	17000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Lead	9.6		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Magnesium	34000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Calcium	90000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 05:05	10
Manganese	450		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Nickel	21		0.57	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Selenium	0.60		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:17	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:17	1
Vanadium	19		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Zinc	38		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Potassium	3500		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Sodium	230		57	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0059	mg/Kg	☼	07/27/15 18:45	07/28/15 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	07/27/15 14:15	07/27/15 16:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:56	1
Arsenic	0.61		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Barium	0.74		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:56	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Cobalt	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Copper	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Iron	0.35		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:56	1
Lead	0.062		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:56	1
Magnesium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Manganese	13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Potassium	4.8		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Selenium	0.022	J	0.050	0.020	mg/L		07/26/15 17:40	07/28/15 14:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Vanadium	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Zinc	0.48		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	77		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:06	1
Arsenic	0.037	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:06	1
Beryllium	0.0045		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:06	1
Calcium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Chromium	0.099		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Cobalt	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Copper	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Iron	93		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:06	1
Lead	0.16		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:06	1
Magnesium	18		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Nickel	0.088		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Potassium	18		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:06	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Zinc	0.56	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU	-		07/23/15 13:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0047	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	07/21/15 13:45	07/22/15 19:36	1
Dibromofluoromethane	107		75 - 120	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	07/21/15 13:45	07/22/15 19:36	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/22/15 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Anthracene	0.035	J	0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[a]anthracene	0.12		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[b]fluoranthene	0.22		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[g,h,i]perylene	0.11		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[k]fluoranthene	0.11		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Chrysene	0.15		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Fluoranthene	0.24		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Fluorene	0.016 J		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Phenanthrene	0.16		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Pyrene	0.51		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		25 - 119	07/24/15 07:07	07/29/15 15:17	1
2-Fluorophenol	63		25 - 110	07/24/15 07:07	07/29/15 15:17	1
Nitrobenzene-d5	45		25 - 115	07/24/15 07:07	07/29/15 15:17	1
Phenol-d5	64		31 - 110	07/24/15 07:07	07/29/15 15:17	1
Terphenyl-d14	180	X	36 - 134	07/24/15 07:07	07/29/15 15:17	1
2,4,6-Tribromophenol	88		35 - 137	07/24/15 07:07	07/29/15 15:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Antimony	0.32	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Arsenic	6.8		0.60	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Barium	87		0.60	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Beryllium	0.78		0.24	0.052	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Cadmium	0.27		0.12	0.035	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Chromium	20		0.60	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Cobalt	10		0.30	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Copper	25		0.60	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Iron	20000		12	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Lead	57		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Magnesium	12000		6.0	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Calcium	17000		12	3.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Manganese	480		0.60	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Nickel	21		0.60	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Selenium	0.72		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:22	1
Silver	0.11	J B	0.30	0.070	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:22	1
Vanadium	27		0.30	0.087	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Zinc	110		1.2	0.38	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Potassium	2300		30	4.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Sodium	1800		60	7.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.018	0.0062	mg/Kg	☼	07/27/15 18:45	07/28/15 11:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Date Collected: 07/20/15 16:20

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-4

Matrix: Solid

Percent Solids: 83.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:00	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Barium	0.49	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:00	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:00	1
Calcium	560		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:00	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Manganese	1.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Potassium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	46		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:13	1
Arsenic	0.027	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Barium	0.50		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:13	1
Calcium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Chromium	0.072		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Copper	0.088		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Iron	56		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:13	1
Lead	0.030		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:13	1
Magnesium	24		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Manganese	0.52		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Nickel	0.068		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Potassium	22		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:13	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Vanadium	0.080		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Zinc	0.50	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:13	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		07/26/15 17:40	07/27/15 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.62		0.200	0.200	SU	-		07/23/15 13:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0032	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/22/15 20:00	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/21/15 13:45	07/22/15 20:00	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/22/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Pyrene	0.0097	J	0.036	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 07:07	07/28/15 22:06	1
2-Fluorophenol	176	X	25 - 110	07/24/15 07:07	07/28/15 22:06	1
Nitrobenzene-d5	69		25 - 115	07/24/15 07:07	07/28/15 22:06	1
Phenol-d5	194	X	31 - 110	07/24/15 07:07	07/28/15 22:06	1
Terphenyl-d14	69		36 - 134	07/24/15 07:07	07/28/15 22:06	1
2,4,6-Tribromophenol	66		35 - 137	07/24/15 07:07	07/28/15 22:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Antimony	0.36	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Arsenic	5.7		0.56	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Barium	37		0.56	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Beryllium	0.60		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Chromium	16		0.56	0.097	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Cobalt	9.0		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Copper	21		0.56	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Iron	17000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Lead	8.4		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Calcium	81000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 05:12	10
Manganese	450		0.56	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Nickel	24		0.56	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Selenium	0.62		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:36	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:36	1
Vanadium	19		0.28	0.082	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Zinc	38		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Potassium	3200		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Sodium	260		56	7.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0066	mg/Kg	☼	07/27/15 18:45	07/28/15 11:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:05	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Barium	0.34	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:05	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:05	1
Calcium	90		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Iron	0.78		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:05	1
Magnesium	31		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Manganese	0.25		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Potassium	2.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:05	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:20	1
Arsenic	0.064		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Barium	0.97		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:20	1
Beryllium	0.0095		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:20	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:20	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Cobalt	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Copper	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Iron	210		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:20	1
Lead	0.088		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:20	1
Magnesium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Nickel	0.20		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Potassium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:20	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Zinc	0.85	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0034		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU	-		07/23/15 13:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.0058	0.0045	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Benzene	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromodichloromethane	<0.0058		0.0058	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromoform	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Carbon disulfide	<0.0058		0.0058	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Carbon tetrachloride	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chlorobenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloroethane	<0.0058		0.0058	0.0025	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloroform	<0.0058		0.0058	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloromethane	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Dibromochloromethane	<0.0058		0.0058	0.00067	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1-Dichloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1-Dichloroethene	<0.0058		0.0058	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloropropane	<0.0058		0.0058	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,3-Dichloropropane, Total	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Ethylbenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Methylene Chloride	<0.0058		0.0058	0.0044	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Methyl tert-butyl ether	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Styrene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.00093	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Tetrachloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Toluene	<0.0058		0.0058	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Trichloroethene	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Vinyl acetate	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Vinyl chloride	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/22/15 20:24	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	07/21/15 13:45	07/22/15 20:24	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/22/15 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[b]fluoranthene	0.059		0.040	0.0086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[g,h,i]perylene	0.028	J	0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Chrysene	0.044		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Fluoranthene	0.076		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Phenanthrene	0.039	J	0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Pyrene	0.063		0.040	0.0079	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 07:07	07/28/15 22:31	1
2-Fluorophenol	63		25 - 110	07/24/15 07:07	07/28/15 22:31	1
Nitrobenzene-d5	66		25 - 115	07/24/15 07:07	07/28/15 22:31	1
Phenol-d5	71		31 - 110	07/24/15 07:07	07/28/15 22:31	1
Terphenyl-d14	74		36 - 134	07/24/15 07:07	07/28/15 22:31	1
2,4,6-Tribromophenol	54		35 - 137	07/24/15 07:07	07/28/15 22:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Antimony	0.56	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Arsenic	7.2		0.61	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Barium	80		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Beryllium	0.82		0.25	0.053	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Chromium	23		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Cobalt	15		0.31	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Copper	19		0.61	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Iron	24000		12	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Lead	19		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Magnesium	4600		6.1	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Calcium	2500		12	3.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Manganese	700		0.61	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Nickel	25		0.61	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Selenium	0.70		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:41	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:41	1
Vanadium	29		0.31	0.090	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Zinc	56		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Potassium	2400		31	5.0	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Sodium	930		61	8.1	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 11:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Date Collected: 07/20/15 10:20

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-6

Matrix: Solid

Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:17	1
Magnesium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Manganese	1.0		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Potassium	3.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Zinc	0.15		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:26	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:26	1
Calcium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Chromium	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Iron	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:26	1
Magnesium	9.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Manganese	0.040		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Potassium	4.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:26	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Zinc	0.35	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:26	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		07/26/15 17:40	07/27/15 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU	-		07/23/15 13:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0044	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromodichloromethane	<0.0057		0.0057	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chlorobenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Dibromochloromethane	<0.0057		0.0057	0.00066	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 11:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 11:10	1
Toluene-d8 (Surr)	117		75 - 122	07/21/15 13:45	07/23/15 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Phenanthrene	0.012	J	0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 07:07	07/28/15 22:56	1
2-Fluorophenol	71		25 - 110	07/24/15 07:07	07/28/15 22:56	1
Nitrobenzene-d5	68		25 - 115	07/24/15 07:07	07/28/15 22:56	1
Phenol-d5	73		31 - 110	07/24/15 07:07	07/28/15 22:56	1
Terphenyl-d14	79		36 - 134	07/24/15 07:07	07/28/15 22:56	1
2,4,6-Tribromophenol	51		35 - 137	07/24/15 07:07	07/28/15 22:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Antimony	0.48	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Arsenic	7.0		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Barium	33		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Chromium	16		0.57	0.097	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Cobalt	10		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Copper	20		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Iron	18000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Lead	9.1		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Calcium	88000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 05:19	10
Manganese	700		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Nickel	28		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Selenium	0.60		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:45	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:45	1
Vanadium	20		0.28	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Zinc	39		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Potassium	3500		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Sodium	320		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0063	mg/Kg	☼	07/27/15 18:45	07/28/15 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:22	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:22	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:22	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:22	1
Magnesium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Manganese	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Potassium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:22	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Zinc	0.13		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	92		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:33	1
Arsenic	0.057		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Barium	0.63		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:33	1
Beryllium	0.0059		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:33	1
Calcium	53		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Chromium	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Cobalt	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Copper	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:33	1
Lead	0.20		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:33	1
Magnesium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Manganese	0.76		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Nickel	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Potassium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:33	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Vanadium	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Zinc	0.87	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:33	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		07/26/15 17:40	07/27/15 20:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.90		0.200	0.200	SU	-		07/23/15 13:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/23/15 11:34	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 11:34	1
Toluene-d8 (Surr)	120		75 - 122	07/21/15 13:45	07/23/15 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Anthracene	0.025	J	0.038	0.0065	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.13		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[b]fluoranthene	0.16		0.038	0.0084	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[k]fluoranthene	0.064		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Chrysene	0.17		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Fluoranthene	0.25		0.038	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Fluorene	0.0082 J		0.038	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Phenanthrene	0.087		0.038	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Pyrene	0.28		0.038	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		25 - 119	07/24/15 07:07	07/29/15 07:26	1
2-Fluorophenol	60		25 - 110	07/24/15 07:07	07/29/15 07:26	1
Nitrobenzene-d5	60		25 - 115	07/24/15 07:07	07/29/15 07:26	1
Phenol-d5	70		31 - 110	07/24/15 07:07	07/29/15 07:26	1
Terphenyl-d14	78		36 - 134	07/24/15 07:07	07/29/15 07:26	1
2,4,6-Tribromophenol	55		35 - 137	07/24/15 07:07	07/29/15 07:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8500		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Antimony	0.44	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Arsenic	5.9		0.59	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Barium	34		0.59	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Beryllium	0.55		0.24	0.051	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Cadmium	0.051	J	0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Chromium	15		0.59	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Cobalt	9.6		0.30	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Copper	20		0.59	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Lead	20		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Magnesium	31000		5.9	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Calcium	82000		120	38	mg/Kg	☼	07/23/15 10:00	07/27/15 05:26	10
Manganese	520		0.59	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Nickel	22		0.59	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Selenium	0.61		0.59	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:51	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:51	1
Vanadium	18		0.30	0.086	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Zinc	51		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Potassium	3000		30	4.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Sodium	690		59	7.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 11:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Barium	0.35	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:27	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:27	1
Calcium	560		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Iron	0.26		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:27	1
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Manganese	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Potassium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Zinc	0.12		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	88		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:40	1
Arsenic	0.052		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Barium	0.60		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:40	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:40	1
Calcium	66		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Cobalt	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:40	1
Lead	0.099		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:40	1
Magnesium	41		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Manganese	0.67		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Potassium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:40	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Zinc	0.67	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:40	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		07/26/15 17:40	07/27/15 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.08		0.200	0.200	SU	-		07/23/15 13:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Benzene	<0.0044		0.0044	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromoform	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloroform	<0.0044		0.0044	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Tetrachloroethene	<0.0044		0.0044	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 11:58	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/21/15 13:45	07/23/15 11:58	1
Toluene-d8 (Surr)	116		75 - 122	07/21/15 13:45	07/23/15 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Anthracene	0.0090	J	0.038	0.0063	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[a]anthracene	0.060		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[b]fluoranthene	0.098		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Chrysene	0.062		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Fluoranthene	0.073		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Pyrene	0.23		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 07:07	07/30/15 13:16	1
2-Fluorophenol	60		25 - 110	07/24/15 07:07	07/30/15 13:16	1
Nitrobenzene-d5	48		25 - 115	07/24/15 07:07	07/30/15 13:16	1
Phenol-d5	54		31 - 110	07/24/15 07:07	07/30/15 13:16	1
Terphenyl-d14	193	X	36 - 134	07/24/15 07:07	07/30/15 13:16	1
2,4,6-Tribromophenol	35		35 - 137	07/24/15 07:07	07/30/15 13:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		12	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Antimony	0.55	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Arsenic	5.7		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Barium	36		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Chromium	16		0.58	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Cobalt	6.3		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Copper	22		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Iron	16000		12	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Lead	12		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Magnesium	29000		5.8	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Calcium	86000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 05:48	10
Manganese	390		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Nickel	19		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Selenium	0.75		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:56	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:56	1
Vanadium	20		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Zinc	42		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Potassium	3400		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Sodium	810		58	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	F2	0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:33	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:33	1
Calcium	69		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Iron	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:33	1
Magnesium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Manganese	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Potassium	2.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:33	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:47	1
Arsenic	0.063		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Barium	0.95		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:47	1
Beryllium	0.0099		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:47	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Cobalt	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Copper	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Iron	210		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:47	1
Lead	0.066		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:47	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Nickel	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Potassium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Vanadium	0.30		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Zinc	0.70	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:47	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		07/26/15 17:40	07/27/15 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0031		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU	-		07/23/15 14:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0041	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/21/15 13:45	07/23/15 12:22	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/21/15 13:45	07/23/15 12:22	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/24/15 07:07	07/28/15 23:20	1
2-Fluorophenol	59		25 - 110	07/24/15 07:07	07/28/15 23:20	1
Nitrobenzene-d5	61		25 - 115	07/24/15 07:07	07/28/15 23:20	1
Phenol-d5	66		31 - 110	07/24/15 07:07	07/28/15 23:20	1
Terphenyl-d14	78		36 - 134	07/24/15 07:07	07/28/15 23:20	1
2,4,6-Tribromophenol	60		35 - 137	07/24/15 07:07	07/28/15 23:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Antimony	0.50	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Arsenic	7.2		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Barium	78		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Beryllium	0.88		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Cadmium	0.18		0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Chromium	24		0.58	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Cobalt	14		0.29	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Copper	20		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Iron	25000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Lead	15		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Magnesium	4300		5.8	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Calcium	2000		12	3.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Manganese	460		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Selenium	0.69		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Vanadium	32		0.29	0.085	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Zinc	52		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Potassium	2000		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Sodium	2100		58	7.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cadmium	0.0057		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:45	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cobalt	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Iron	0.35		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:37	1
Magnesium	260		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Manganese	3.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Nickel	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Potassium	2.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Zinc	0.17	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:09	1
Arsenic	0.038	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Barium	0.51		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:09	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:09	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Chromium	0.095		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Copper	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Iron	82		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:09	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:09	1
Magnesium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Manganese	0.37		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Nickel	0.093		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:09	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Vanadium	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Zinc	0.51	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.72		0.200	0.200	SU	-		07/23/15 14:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0040	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/21/15 13:45	07/23/15 12:46	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/23/15 12:46	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/24/15 07:07	07/28/15 23:45	1
2-Fluorophenol	66		25 - 110	07/24/15 07:07	07/28/15 23:45	1
Nitrobenzene-d5	67		25 - 115	07/24/15 07:07	07/28/15 23:45	1
Phenol-d5	73		31 - 110	07/24/15 07:07	07/28/15 23:45	1
Terphenyl-d14	72		36 - 134	07/24/15 07:07	07/28/15 23:45	1
2,4,6-Tribromophenol	34	X	35 - 137	07/24/15 07:07	07/28/15 23:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Antimony	0.45	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Arsenic	4.8		0.55	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Barium	24		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Beryllium	0.51		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Chromium	14		0.55	0.094	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Cobalt	6.7		0.27	0.062	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Copper	20		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Iron	15000		11	4.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Lead	8.9		0.27	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Magnesium	34000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Calcium	87000		110	35	mg/Kg	☼	07/23/15 10:00	07/27/15 05:55	10
Manganese	470		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Nickel	18		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Selenium	0.60		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:06	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:06	1
Vanadium	17		0.27	0.080	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Zinc	40		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Potassium	2900		27	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Sodium	430		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.017	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:42	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:42	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:42	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:42	1
Magnesium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Manganese	0.85		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Potassium	1.7	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:42	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Zinc	0.26		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	83		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:16	1
Arsenic	0.040	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Barium	0.58		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:16	1
Beryllium	0.0053		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:16	1
Calcium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Cobalt	0.031		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Copper	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Iron	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:16	1
Lead	0.043		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:16	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Manganese	0.59		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Nickel	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:16	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Zinc	0.55	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0025		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU	-		07/23/15 14:10	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/21/15 13:45	07/23/15 16:46	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/21/15 13:45	07/23/15 16:46	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Pentachlorophenol	<0.74		0.74	0.58	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		25 - 119	07/24/15 07:07	07/29/15 00:10	1
2-Fluorophenol	62		25 - 110	07/24/15 07:07	07/29/15 00:10	1
Nitrobenzene-d5	64		25 - 115	07/24/15 07:07	07/29/15 00:10	1
Phenol-d5	74		31 - 110	07/24/15 07:07	07/29/15 00:10	1
Terphenyl-d14	82		36 - 134	07/24/15 07:07	07/29/15 00:10	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/29/15 00:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Antimony	0.44	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Arsenic	5.6		0.55	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Barium	41		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Beryllium	0.64		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Chromium	17		0.55	0.095	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Cobalt	9.5		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Copper	20		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Iron	17000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Lead	8.9		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Magnesium	29000		5.5	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Calcium	78000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:02	10
Manganese	480		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Nickel	23		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Selenium	0.35	J	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:11	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:11	1
Vanadium	20		0.28	0.081	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Zinc	38		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Potassium	3200		28	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Sodium	1100		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0062	mg/Kg	☼	07/27/15 18:45	07/28/15 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:47	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Barium	0.72		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:47	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:47	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Cobalt	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:47	1
Lead	0.011		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:47	1
Magnesium	68		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Manganese	16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Nickel	0.027		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Potassium	3.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Zinc	0.26		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:23	1
Arsenic	0.088		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Barium	1.3		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:23	1
Beryllium	0.011		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:23	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:23	1
Calcium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Chromium	0.26		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Cobalt	0.085		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Copper	0.29		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Iron	240		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:23	1
Lead	0.23		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:23	1
Magnesium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Manganese	3.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Nickel	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Potassium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Vanadium	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Zinc	0.77	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:23	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		07/26/15 17:40	07/27/15 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0043		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU	-		07/23/15 14:15	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0050	0.0038	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/21/15 13:45	07/23/15 17:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	07/21/15 13:45	07/23/15 17:10	1
Toluene-d8 (Surr)	111		75 - 122	07/21/15 13:45	07/23/15 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Anthracene	0.018	J	0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[a]anthracene	0.074		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.093		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[b]fluoranthene	0.15		0.040	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[g,h,i]perylene	0.067		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[k]fluoranthene	0.066		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Chrysene	0.11		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Fluoranthene	0.13		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Indeno[1,2,3-cd]pyrene	0.061		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Phenanthrene	0.081		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Pyrene	0.29		0.040	0.0080	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	07/24/15 07:07	07/29/15 16:00	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 16:00	1
Nitrobenzene-d5	56		25 - 115	07/24/15 07:07	07/29/15 16:00	1
Phenol-d5	77		31 - 110	07/24/15 07:07	07/29/15 16:00	1
Terphenyl-d14	210	X	36 - 134	07/24/15 07:07	07/29/15 16:00	1
2,4,6-Tribromophenol	92		35 - 137	07/24/15 07:07	07/29/15 16:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		12	3.1	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Antimony	<1.2		1.2	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Arsenic	7.4		0.62	0.29	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Barium	84		0.62	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Beryllium	0.94		0.25	0.054	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Chromium	25		0.62	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Cobalt	12		0.31	0.070	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Copper	24		0.62	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Iron	24000		12	4.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Lead	24		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Magnesium	12000		6.2	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Calcium	13000		12	4.0	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Manganese	370		0.62	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Nickel	32		0.62	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Selenium	0.68		0.62	0.31	mg/Kg	☼	07/23/15 10:00	07/27/15 02:16	1
Silver	0.12	J B	0.31	0.073	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	07/23/15 10:00	07/27/15 02:16	1
Vanadium	29		0.31	0.091	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Zinc	59		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Potassium	3500		31	5.1	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Sodium	2200		62	8.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cadmium	0.0055		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:49	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cobalt	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:51	1
Magnesium	240		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Manganese	3.3		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Nickel	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Potassium	1.9	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Zinc	0.13	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	63		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:30	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Barium	0.61		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:30	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:30	1
Calcium	61		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Chromium	0.096		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Copper	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Iron	75		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:30	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:30	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Manganese	0.38		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Nickel	0.086		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:30	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Vanadium	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Zinc	0.66	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:30	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		07/26/15 17:40	07/27/15 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU	-		07/23/15 14:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0043	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Dibromochloromethane	<0.0055		0.0055	0.00064	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloropropane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Tetrachloroethene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/21/15 13:45	07/23/15 17:34	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 17:34	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/24/15 07:07	07/29/15 00:34	1
2-Fluorophenol	71		25 - 110	07/24/15 07:07	07/29/15 00:34	1
Nitrobenzene-d5	70		25 - 115	07/24/15 07:07	07/29/15 00:34	1
Phenol-d5	80		31 - 110	07/24/15 07:07	07/29/15 00:34	1
Terphenyl-d14	83		36 - 134	07/24/15 07:07	07/29/15 00:34	1
2,4,6-Tribromophenol	38		35 - 137	07/24/15 07:07	07/29/15 00:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Antimony	0.39	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Arsenic	5.4		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Barium	31		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Beryllium	0.56		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Chromium	15		0.58	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Cobalt	6.0		0.29	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Copper	21		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Lead	8.5		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Magnesium	32000		5.8	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Calcium	89000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:09	10
Manganese	420		0.58	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Nickel	19		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Selenium	0.45	J	0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:20	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:20	1
Vanadium	18		0.29	0.085	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Zinc	36		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Potassium	3100		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Sodium	530		58	7.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.019	0.0065	mg/Kg	☼	07/27/15 18:45	07/28/15 12:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:56	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:56	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:56	1
Calcium	84		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Iron	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:56	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Manganese	0.48		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Potassium	2.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:56	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Zinc	0.17		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:36	1
Arsenic	0.074		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Barium	0.93		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:36	1
Beryllium	0.0096		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:36	1
Calcium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Cobalt	0.054		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Copper	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Iron	220		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:36	1
Lead	0.081		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:36	1
Magnesium	45		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Nickel	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Potassium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Zinc	0.50	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:36	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		07/26/15 17:40	07/27/15 20:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0037		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU	-		07/23/15 14:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/21/15 13:45	07/23/15 17:58	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 17:58	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/23/15 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	07/24/15 07:07	07/29/15 00:59	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 00:59	1
Nitrobenzene-d5	81		25 - 115	07/24/15 07:07	07/29/15 00:59	1
Phenol-d5	87		31 - 110	07/24/15 07:07	07/29/15 00:59	1
Terphenyl-d14	92		36 - 134	07/24/15 07:07	07/29/15 00:59	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/29/15 00:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Antimony	0.64	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Arsenic	9.0		0.60	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Barium	110		0.60	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Beryllium	0.96		0.24	0.052	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Chromium	26		0.60	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Cobalt	14		0.30	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Copper	31		0.60	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Iron	28000		12	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Lead	21		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Magnesium	5900		6.0	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Calcium	2800		12	3.9	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Manganese	540		0.60	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Nickel	35		0.60	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Selenium	0.61		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:34	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:34	1
Vanadium	31		0.30	0.088	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Zinc	59		1.2	0.38	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Potassium	3100		30	4.9	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Sodium	1800		60	8.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:00	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Barium	0.55		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:00	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:00	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Iron	0.43		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:00	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Manganese	1.0		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Potassium	2.7		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Zinc	0.15		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:43	1
Arsenic	0.060		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Barium	0.53		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:43	1
Beryllium	0.0065		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:43	1
Calcium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Chromium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Cobalt	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Iron	140		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:43	1
Lead	0.066		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:43	1
Magnesium	45		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Nickel	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Potassium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:43	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Zinc	0.41	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:43	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		07/26/15 17:40	07/27/15 20:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU	-		07/23/15 14:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0098		0.0046	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloroethane	<0.0046		0.0046	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloroform	<0.0046		0.0046	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Ethylbenzene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Tetrachloroethene	<0.0046		0.0046	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/23/15 18:22	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 18:22	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/23/15 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	07/24/15 07:07	07/29/15 01:24	1
2-Fluorophenol	75		25 - 110	07/24/15 07:07	07/29/15 01:24	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/29/15 01:24	1
Phenol-d5	79		31 - 110	07/24/15 07:07	07/29/15 01:24	1
Terphenyl-d14	72		36 - 134	07/24/15 07:07	07/29/15 01:24	1
2,4,6-Tribromophenol	45		35 - 137	07/24/15 07:07	07/29/15 01:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Antimony	0.40	J B	1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Arsenic	7.0		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Barium	33		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Beryllium	0.58		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Chromium	16		0.57	0.098	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Cobalt	5.0		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Copper	25		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Iron	18000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Lead	9.9		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Calcium	85000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:15	10
Manganese	380		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Nickel	20		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Selenium	0.41	J	0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:39	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:39	1
Vanadium	19		0.29	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Zinc	42		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Potassium	3100		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Sodium	300		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:13	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Barium	0.42	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:13	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:13	1
Calcium	600		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Iron	0.32		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:13	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:13	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:50	1
Arsenic	0.016	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Barium	0.44	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:50	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Chromium	0.065		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Cobalt	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Copper	0.069		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Iron	48		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:50	1
Lead	0.019		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:50	1
Magnesium	24		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Manganese	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Nickel	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:50	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Vanadium	0.074		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Zinc	0.36	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:50	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		07/26/15 17:40	07/27/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU	-		07/23/15 14:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/21/15 13:45	07/23/15 18:46	1
Dibromofluoromethane	105		75 - 120	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	07/21/15 13:45	07/23/15 18:46	1
Toluene-d8 (Surr)	116		75 - 122	07/21/15 13:45	07/23/15 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	07/24/15 07:07	07/29/15 01:48	1
2-Fluorophenol	76		25 - 110	07/24/15 07:07	07/29/15 01:48	1
Nitrobenzene-d5	78		25 - 115	07/24/15 07:07	07/29/15 01:48	1
Phenol-d5	83		31 - 110	07/24/15 07:07	07/29/15 01:48	1
Terphenyl-d14	76		36 - 134	07/24/15 07:07	07/29/15 01:48	1
2,4,6-Tribromophenol	52		35 - 137	07/24/15 07:07	07/29/15 01:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Antimony	0.26	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Arsenic	4.5		0.55	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Barium	37		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Chromium	17		0.55	0.095	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Cobalt	5.8		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Copper	16		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Iron	16000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Lead	7.5		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Magnesium	27000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Calcium	90000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:22	10
Manganese	330		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Nickel	19		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Selenium	0.50	J	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:44	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:44	1
Vanadium	19		0.28	0.081	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Zinc	35		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Potassium	3300		28	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Sodium	230		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 12:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:18	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Barium	0.68		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:18	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:18	1
Calcium	520		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:18	1
Magnesium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Potassium	3.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:18	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	21		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:57	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Chromium	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Copper	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Iron	18		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:57	1
Lead	0.0085		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:57	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Manganese	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Nickel	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Potassium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Vanadium	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Zinc	0.43	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:57	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		07/26/15 17:40	07/27/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU	-		07/23/15 14:40	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 19:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 19:10	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Pyrene	0.0081	J	0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	07/24/15 07:07	07/29/15 02:12	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 02:12	1
Nitrobenzene-d5	85		25 - 115	07/24/15 07:07	07/29/15 02:12	1
Phenol-d5	89		31 - 110	07/24/15 07:07	07/29/15 02:12	1
Terphenyl-d14	81		36 - 134	07/24/15 07:07	07/29/15 02:12	1
2,4,6-Tribromophenol	59		35 - 137	07/24/15 07:07	07/29/15 02:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Antimony	0.45	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Arsenic	5.8		0.56	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Barium	39		0.56	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Beryllium	0.59		0.22	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Chromium	16		0.56	0.096	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Cobalt	12		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Copper	19		0.56	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Iron	16000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Lead	8.7		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Magnesium	31000		5.6	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Calcium	75000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:29	10
Manganese	480		0.56	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Nickel	25		0.56	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Selenium	0.47	J	0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:49	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:49	1
Vanadium	19		0.28	0.082	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Zinc	36		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Potassium	3300		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Sodium	260		56	7.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0066	mg/Kg	☼	07/27/15 18:45	07/28/15 12:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:23	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:23	1
Calcium	320		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:23	1
Magnesium	95		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Manganese	3.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Nickel	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Potassium	1.9	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	170		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:03	1
Arsenic	0.068		0.050	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Barium	0.92		0.50	0.050	mg/L		07/26/15 17:40	07/28/15 00:03	1
Beryllium	0.011		0.0040	0.0040	mg/L		07/26/15 17:40	07/28/15 00:03	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/28/15 00:03	1
Calcium	37		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Chromium	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Cobalt	0.058		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Copper	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Iron	200		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:03	1
Lead	0.23		0.0075	0.0075	mg/L		07/26/15 17:40	07/28/15 00:03	1
Magnesium	43		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Manganese	1.2		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Nickel	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Potassium	35		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/28/15 00:03	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Zinc	0.74	B	0.10	0.020	mg/L		07/26/15 17:40	07/28/15 00:03	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		07/26/15 17:40	07/27/15 20:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0036		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU	-		07/23/15 14:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0042	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 19:34	1
Dibromofluoromethane	107		75 - 120	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/21/15 13:45	07/23/15 19:34	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[a]anthracene	0.052		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[b]fluoranthene	0.10		0.040	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[g,h,i]perylene	0.054		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[k]fluoranthene	0.048		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Chrysene	0.080		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Fluoranthene	0.11		0.040	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Indeno[1,2,3-cd]pyrene	0.041		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Phenanthrene	0.046		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Pyrene	0.095		0.040	0.0080	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/24/15 07:07	07/29/15 06:38	1
2-Fluorophenol	69		25 - 110	07/24/15 07:07	07/29/15 06:38	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/29/15 06:38	1
Phenol-d5	81		31 - 110	07/24/15 07:07	07/29/15 06:38	1
Terphenyl-d14	83		36 - 134	07/24/15 07:07	07/29/15 06:38	1
2,4,6-Tribromophenol	54		35 - 137	07/24/15 07:07	07/29/15 06:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Antimony	0.49	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Arsenic	7.5		0.61	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Barium	81		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Beryllium	0.90		0.25	0.053	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Chromium	22		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Cobalt	12		0.31	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Copper	26		0.61	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Iron	23000		12	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Lead	19		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Magnesium	6600		6.1	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Calcium	5200		12	4.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Manganese	730		0.61	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Nickel	38		0.61	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Selenium	0.48	J	0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:54	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:54	1
Vanadium	24		0.31	0.090	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Zinc	49		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Potassium	2300		31	5.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Sodium	1400		61	8.1	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Barium	0.68		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cadmium	0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:53	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cobalt	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:27	1
Magnesium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Manganese	2.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Nickel	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Potassium	1.7	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Zinc	0.16	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	81		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:10	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Barium	0.67		0.50	0.050	mg/L		07/26/15 17:40	07/28/15 00:10	1
Beryllium	0.0054		0.0040	0.0040	mg/L		07/26/15 17:40	07/28/15 00:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/28/15 00:10	1
Calcium	61		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Cobalt	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Copper	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Iron	95		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:10	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/28/15 00:10	1
Magnesium	43		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Manganese	0.44		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Potassium	32		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/28/15 00:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Zinc	0.51	B	0.10	0.020	mg/L		07/26/15 17:40	07/28/15 00:10	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		07/26/15 17:40	07/27/15 20:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/28/15 11:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0034		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/28/15 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47		0.200	0.200	SU	-		07/23/15 14:49	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/21/15 13:45	07/23/15 19:58	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/23/15 19:58	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/23/15 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/24/15 07:07	07/29/15 02:37	1
2-Fluorophenol	84		25 - 110	07/24/15 07:07	07/29/15 02:37	1
Nitrobenzene-d5	89		25 - 115	07/24/15 07:07	07/29/15 02:37	1
Phenol-d5	94		31 - 110	07/24/15 07:07	07/29/15 02:37	1
Terphenyl-d14	87		36 - 134	07/24/15 07:07	07/29/15 02:37	1
2,4,6-Tribromophenol	58		35 - 137	07/24/15 07:07	07/29/15 02:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		12	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Antimony	0.50	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Arsenic	5.1		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Barium	79		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Cobalt	8.2		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Copper	19		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Lead	8.5		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Magnesium	29000		5.8	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Calcium	80000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:36	10
Manganese	450		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Selenium	0.67		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:59	1
Silver	0.089	J B	0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:59	1
Vanadium	20		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Zinc	37		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Potassium	3400		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Sodium	450		58	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 13:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.84		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:29	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:29	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:29	1
Calcium	540		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:29	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Manganese	1.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:29	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	70		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:40	1
Arsenic	0.026	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Barium	0.39	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:40	1
Beryllium	0.0046		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:40	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:40	1
Calcium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Chromium	0.099		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Cobalt	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Copper	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Iron	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:40	1
Lead	0.070		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:20	5
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Manganese	0.66		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Nickel	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Potassium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:40	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Vanadium	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Zinc	0.35		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:40	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		07/26/15 17:40	07/27/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0028		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 10:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.80		0.200	0.200	SU	-		07/23/15 14:54	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0061		0.0045	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 20:22	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 20:22	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/24/15 07:23	07/29/15 03:01	1
2-Fluorophenol	71		25 - 110	07/24/15 07:23	07/29/15 03:01	1
Nitrobenzene-d5	78		25 - 115	07/24/15 07:23	07/29/15 03:01	1
Phenol-d5	83		31 - 110	07/24/15 07:23	07/29/15 03:01	1
Terphenyl-d14	86		36 - 134	07/24/15 07:23	07/29/15 03:01	1
2,4,6-Tribromophenol	42		35 - 137	07/24/15 07:23	07/29/15 03:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Antimony	0.46	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Arsenic	5.3		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Barium	38		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Beryllium	0.70		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Cadmium	0.28	B	0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Chromium	15		0.56	0.096	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Cobalt	11		0.28	0.063	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Copper	20		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Iron	17000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Lead	8.8		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:21	1
Magnesium	27000		5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Calcium	81000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:28	10
Manganese	360		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Nickel	27		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Selenium	0.43	J	0.57	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 22:51	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Thallium	1.2		0.56	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 00:21	1
Vanadium	19		0.28	0.081	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Zinc	63		1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Potassium	2300		28	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Sodium	510		56	7.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:34	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:34	1
Cadmium	0.0055		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:34	1
Calcium	1300		25	5.0	mg/L		07/26/15 17:40	07/28/15 15:29	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Cobalt	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:34	1
Magnesium	150		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:34	1
Manganese	2.7		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Nickel	0.023	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:34	1
Selenium	0.021	J	0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Zinc	0.13	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:44	1
Arsenic	0.013	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:44	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:44	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Chromium	0.061		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Cobalt	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Copper	0.078		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Iron	55		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:44	1
Lead	<0.038		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:24	5
Magnesium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Manganese	0.29		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Nickel	0.066		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Potassium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Vanadium	0.075		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Zinc	0.18		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:44	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		07/26/15 17:40	07/27/15 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.75		0.200	0.200	SU	-		07/23/15 14:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Benzene	<0.0043		0.0043	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1-Dichloroethene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Trichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/23/15 16:22	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/21/15 13:45	07/23/15 16:22	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/23/15 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	07/24/15 07:23	07/29/15 03:25	1
2-Fluorophenol	67		25 - 110	07/24/15 07:23	07/29/15 03:25	1
Nitrobenzene-d5	68		25 - 115	07/24/15 07:23	07/29/15 03:25	1
Phenol-d5	78		31 - 110	07/24/15 07:23	07/29/15 03:25	1
Terphenyl-d14	82		36 - 134	07/24/15 07:23	07/29/15 03:25	1
2,4,6-Tribromophenol	42		35 - 137	07/24/15 07:23	07/29/15 03:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Antimony	0.43	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Arsenic	6.4		0.55	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Barium	46		0.55	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Beryllium	0.71		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Cadmium	0.42	B	0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Chromium	15		0.55	0.095	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Cobalt	8.0		0.28	0.062	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Copper	19		0.55	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Iron	18000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Lead	8.7		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:35	1
Magnesium	26000		5.5	2.2	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Calcium	90000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:41	10
Manganese	390		0.55	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Nickel	25		0.55	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Selenium	0.29	J	0.56	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 22:56	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Thallium	1.2		0.55	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 00:35	1
Vanadium	20		0.28	0.081	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Zinc	54		1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Potassium	2200		28	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Sodium	640		55	7.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0058	mg/Kg	☼	07/27/15 18:45	07/28/15 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:39	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:39	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:39	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:39	1
Magnesium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Manganese	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Potassium	2.4	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:39	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Zinc	0.044	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:48	1
Arsenic	0.023	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:48	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:48	1
Calcium	52		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Chromium	0.083		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Cobalt	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Copper	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Iron	78		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:48	1
Lead	0.092		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:28	5
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Manganese	0.45		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Nickel	0.098		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Potassium	21		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:48	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Vanadium	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Zinc	0.33		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:48	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		07/26/15 17:40	07/27/15 19:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU	-		07/23/15 15:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0040	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/24/15 16:19	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	07/21/15 13:45	07/24/15 16:19	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/24/15 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.053		0.036	0.0071	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[b]fluoranthene	0.088		0.036	0.0079	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[k]fluoranthene	0.044		0.036	0.011	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Chrysene	0.057		0.036	0.010	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Fluoranthene	0.063		0.036	0.0068	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Phenanthrene	0.024	J	0.036	0.0051	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Pyrene	0.17		0.036	0.0073	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/24/15 07:23	07/30/15 14:00	1
2-Fluorophenol	59		25 - 110	07/24/15 07:23	07/30/15 14:00	1
Nitrobenzene-d5	46		25 - 115	07/24/15 07:23	07/30/15 14:00	1
Phenol-d5	52		31 - 110	07/24/15 07:23	07/30/15 14:00	1
Terphenyl-d14	168	X	36 - 134	07/24/15 07:23	07/30/15 14:00	1
2,4,6-Tribromophenol	27	X	35 - 137	07/24/15 07:23	07/30/15 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Antimony	0.39	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Arsenic	7.3		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Barium	39		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Cadmium	0.33	B	0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Chromium	14		0.56	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Cobalt	10		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Copper	22		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Iron	17000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Lead	31		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:48	1
Magnesium	28000		5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Calcium	91000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:55	10
Manganese	440		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Nickel	25		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Selenium	0.46	J	0.55	0.27	mg/Kg	☼	07/26/15 20:19	07/27/15 23:01	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Thallium	0.96		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 00:48	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Zinc	66		1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Potassium	2000		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Sodium	1100		56	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 13:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:59	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-98820 COC

Report To (optional)

Contact: Matt Weiss
Company: Terracon
Address: 135 Ambassador Dr
Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-9489
E-Mail: matt.weiss@terracon.com

Bill To (optional)

Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-98820
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 2, 9, 3, 3, 2, 1

Client		Client Project #		Preservative												Preservative Key		
Project Name		11157102		Parameter												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																
<u>Northbrook, IL</u>																		
Sampler		Lab PM																
<u>Cherd Kelly</u>																		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 Metals	TCMP 24 Metals	SPLP 24 Metals	pH					Comments	
			Date	Time														
1		2682-4-B17 (0-4)	7/20/15	9:30	6	S	✓	✓	✓	✓	✓	✓						
2		2682-4-B19 (0-5)	7/20/15	9:50	6	S	✓	✓	✓	✓	✓	✓						
3		2682-4-B19 (5-11)	7/20/15	10:00	6	S	✓	✓	✓	✓	✓	✓						
4		2682-4-B20 (0-5)	7/20/15	4:20	6	S	✓	✓	✓	✓	✓	✓						
5		2682-4-B20 (5-11)	7/20/15	4:30	6	S	✓	✓	✓	✓	✓	✓						
6		2682-4-B21 (0-5)	7/20/15	10:20	6	S	✓	✓	✓	✓	✓	✓						
7		2682-4-B21 (5-11)	7/20/15	10:25	6	S	✓	✓	✓	✓	✓	✓						
8		2682-4-B22 (0-4)	7/20/15	3:50	6	S	✓	✓	✓	✓	✓	✓						
9		2682-4-B22 Dup (0-4)	7/20/15	3:55	6	S	✓	✓	✓	✓	✓	✓						
10		2682-4-B23 (0-5)	7/20/15	10:45	6	S	✓	✓	✓	✓	✓	✓						

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>C. Kelly</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>11:00</u>	Received By: <u>Shirley Woods</u> Company: <u>TA-CAT</u> Date: <u>7/21/15</u> Time: <u>11:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

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

Client Comments: IL TAO

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 125 Ambassador Drive
Naperville, IL 60540
Address: Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-2489
E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-98820

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative												Preservative Key	
Project Name				Parameter												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #															
Sampler		Lab PM															
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 29 Metals	TCLP 24 Metals	SPLP 24 Metals	pH					Comments
			Date	Time													
11		2682-4-B23 (5-11)	7/20/15	10:50	6	S	✓	✓	✓	✓	✓	✓					
12		2682-4-B25 (0-4)	7/20/15	11:10	6	S	✓	✓	✓	✓	✓	✓					
13		2682-4-B27 (0-5)	7/20/15	11:30	6	S	✓	✓	✓	✓	✓	✓					
14		2682-4-B27 (5-11)	7/20/15	11:35	6	S	✓	✓	✓	✓	✓	✓					
15		2682-4-B26 (0-5)	7/20/15	3:20	6	S	✓	✓	✓	✓	✓	✓					
16		2682-4-B26 (5-11)	7/20/15	3:30	6	S	✓	✓	✓	✓	✓	✓					
17		2682-4-B28 (0-5)	7/20/15	2:55	6	S	✓	✓	✓	✓	✓	✓					
18		2682-4-B28 (5-11)	7/20/15	3:00	6	S	✓	✓	✓	✓	✓	✓					
19		2682-4-B29 (0-5)	7/20/15	11:55	6	S	✓	✓	✓	✓	✓	✓					
20		2682-4-B29 (5-11)	7/20/15	12:05	6	S	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>1:00</u>	Received By: <u>[Signature]</u> Company: <u>TA-O&E</u> Date: <u>7/21/15</u> Time: <u>1:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA

Shipped: _____

Hand Delivered: _____

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

Client Comments: IL TACO

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To: MR Matt Weiss (optional)
Contact: Terrecon
Company: Terrecon
Address: 135 Ambassador Dr.
Address: Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-9489
E-Mail: Matt.Weiss@terrecon.com

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

Chain of Custody Record

Lab Job #: 500-98820
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 metals	TCLP 24 metals	SPLP 24 metals	pH	Comments				
			Date	Time													
21		2682-4-B30 (0-4)	7/20/15	2:25	6	S	✓	✓	✓	✓	✓	✓					
22		2682-4-B30 Dup (0-4)	7/20/15	2:30	6	S	✓	✓	✓	✓	✓	✓					
23		2682-4-B31 (0-4)	7/20/15	12:25	6	S	✓	✓	✓	✓	✓	✓					
24		2682-5-B01 (0-1.5)	7/20/15	1:30	6	S	✓	✓	✓	✓	✓	✓					
25		2682-5-B01 Dup (0-1.5)	7/20/15	1:35	6	S	✓	✓	✓	✓	✓	✓					
26		2682-5-B02 (0-4)	7/20/15	12:45	6	S	✓	✓	✓	✓	✓	✓					
27		2682-5-B03 (0-1.5)	7/20/15	1:00	6	S	✓	✓	✓	✓	✓	✓					
28		2682-5-B04 (0-1.5)	7/20/15	1:15	6	S	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days): ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other
Requested Due Date: _____
Sample Disposal: Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>C. Kelly</u> Company: <u>Terrecon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>11:00</u>	Received By: <u>Sherrin Scott</u> Company: <u>TA-CPI</u> Date: <u>7/21/15</u> Time: <u>11:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

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

Client Comments: IL TACO

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98820-1

Login Number: 98820
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,3.3,2.7
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.	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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-98885-1

Client Project/Site: IDOT - Northbrook - WO 002

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

7/31/2015 6:15:57 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	24
Client Sample Results	25
Definitions	131
Chain of Custody	132
Receipt Checklists	135

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Job ID: 500-98885-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98885-1

Receipt

The samples were received on 7/22/2015 12:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° C.

Receipt Exceptions

Lab sample 16 bottles have ID of 2682-4-B24 (0-5) with time of 1000, and sample 17 bottles have ID of 2682-4-B24 (5-11) with time of 0950, The lab logged in per COC.

Cyanide for lab sample 18 was logged in 7/30/15. The lab used the extra unpreserved amber glass bottle used for SVOC after confirmation the extra sample would not be needed. The bottle was preserved with NaOH on 7/30/15,

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate outside acceptance limits: 2682-4-B04 (5-11) (500-98885-2) and 2682-4-B12 (5-11) (500-98885-10). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The continuing calibration verification (CCV) at line 73 associated with batch 500-297816 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 2682-4-B12 (5-11) (500-98885-10), 2682-4-B14A (0-4) (500-98885-11), 2682-4-B16 (0-5) (500-98885-12), 2682-4-B16 (5-11) (500-98885-13), 2682-4-B18 (0-5) (500-98885-14), 2682-4-B18 (5-11) (500-98885-15), 2682-4-B24 (0-5) (500-98885-16) and 2682-4-B24 (5-11) (500-98885-17).

Method(s) 6020A: The following sample was diluted due to the nature of the sample matrix: 2682-4-G02 (500-98885-18). Elevated reporting limits (RLs) are provided for Sb.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	13000		12	2.9	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.56	J F1	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.7		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	51		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.79		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Chromium	20		0.58	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	8.4		0.29	0.066	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	9.6	F2 F1	0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	30000	F2 B	5.8	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	53000	B F2	12	3.7	mg/Kg	1		☼	6010B	Total/NA
Manganese	440		0.58	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	24		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.39	J F1	0.58	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	26		0.29	0.085	mg/Kg	1		☼	6010B	Total/NA
Zinc	39	F2 F1 B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	3500		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	1200		58	7.7	mg/Kg	1		☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0051		0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1200		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.0		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1			6010B	TCLP
Selenium	0.025	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.057	J B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	120		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.049	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.51		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0072		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	39		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.036		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.049		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	42		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.57		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0036		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.026		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	9.00		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11) (Continued)

Lab Sample ID: 500-98885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	10000		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.23	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.1		0.56	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	42		0.56	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.64		0.22	0.049	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.56	0.097	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.6		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	18		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	9.6		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	32000	B	5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	84000	B	110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	520		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1		☼	6010B	Total/NA
Zinc	40	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3700		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	220		56	7.4	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.35		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.26		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.78		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.021	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.023	J B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	24		0.20	0.20	mg/L	1			6010B	SPLP East
Barium	0.33	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	56		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.037		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	25		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.014		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.029		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.042		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.018		0.018	0.0062	mg/Kg	1		☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0093		0.0042	0.0032	mg/Kg	1		☼	8260B	Total/NA
Aluminum	7200		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.32	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5) (Continued)

Lab Sample ID: 500-98885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	8.8		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	27		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.51		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.1		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	9.0		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	31000	B	5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	88000	B	110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	470		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	20		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.55	J	0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	38	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	420		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.57		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.36	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	590		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.066	J B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	56		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.018	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.48	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.076		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.017	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.080		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	58		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.026		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	19		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.46		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.069		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.097		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.34		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.019		0.019	0.0066	mg/Kg	1		☼	7471B	Total/NA
pH	8.89		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	11000		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.38	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11) (Continued)

Lab Sample ID: 500-98885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.3		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	92000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	39	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.39		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.90		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.24	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	35		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.019	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	46		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.29		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.67		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0078	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0084	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5) (Continued)

Lab Sample ID: 500-98885-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9500		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.49	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	5.0		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	45		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.59		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Chromium	16		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	5.3		0.28	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	16		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	8.3		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	28000	B	5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	86000	B	110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	390		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.28	J	0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	34	B	1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	680		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.50		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0053		0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1400		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.029	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.53		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0042		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	66		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.092		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.020	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.092		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	77		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.035		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.078		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.39		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.016	J	0.017	0.0058	mg/Kg	1		☼	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11) (Continued)

Lab Sample ID: 500-98885-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9000		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.37	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	5.7		0.55	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	36		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.57		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.55	0.095	mg/Kg	1		☼	6010B	Total/NA
Cobalt	6.3		0.28	0.062	mg/Kg	1		☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	7.8		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	34000	B	5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	100000	B	110	35	mg/Kg	10		☼	6010B	Total/NA
Manganese	360		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.33	J	0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.28	0.080	mg/Kg	1		☼	6010B	Total/NA
Zinc	34	B	1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	3300		28	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	470		55	7.3	mg/Kg	1		☼	6010B	Total/NA
Aluminum	0.88		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.012	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.46	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0053		0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	1300		25	5.0	mg/L	10			6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.027	J	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.12	B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.026	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	55		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.069		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.080		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	57		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.024		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	29		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.29		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.066		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.079		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.36		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.019		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.67		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5) (Continued)

Lab Sample ID: 500-98885-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.022		0.0054	0.0042	mg/Kg	1	☼	☼	8260B	Total/NA
Benzo[a]anthracene	0.030	J	0.039	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.028	J	0.039	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.039	0.0084	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.039	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.032	J	0.039	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.059		0.039	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.044		0.039	0.0077	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	15000		12	2.9	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.28	J	1.2	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	7.5		0.59	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	72		0.59	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.051	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	28		0.59	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	22000		12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	29		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	7300	B	5.9	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	8000	B	12	3.8	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	230		0.59	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	24		0.59	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.65		0.59	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	30		0.30	0.086	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	76	B	1.2	0.37	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	2600		30	4.8	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	1500		59	7.8	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.49	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	310		2.5	0.50	mg/L	1			6010B	TCLP
Iron	0.21		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1			6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1			6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	150		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.077		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.85		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0090		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.10		0.0075	0.0075	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5) (Continued)

Lab Sample ID: 500-98885-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.96		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.65		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0037		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.040		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8700		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	93000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	620		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	36	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	570		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.14	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	53		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.028	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	53		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.081		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.094		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	69		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.031		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11) (Continued)

Lab Sample ID: 500-98885-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.37		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.021	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.031	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.044		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.089		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.070		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.071		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.60	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	550		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.89		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	570		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.11	B	0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5) (Continued)

Lab Sample ID: 500-98885-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	110		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.050		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.66		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0069		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	47		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.052		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0030		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.023		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0094	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	39	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J B	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11) (Continued)

Lab Sample ID: 500-98885-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	550		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.20		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.20	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	30		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	62		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	33		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.037		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	13		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.31		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.29		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0051	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.034	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.099		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.092		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.24		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.057		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.20		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.060		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11000		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.049	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4) (Continued)

Lab Sample ID: 500-98885-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	31		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	36000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	620		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.072	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	71	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J B	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.27	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	99		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.034	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.74		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.081		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.93		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.056		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.055		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.096		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.086		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5) (Continued)

Lab Sample ID: 500-98885-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.089		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.21		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.015	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.17		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.20		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Aluminum	12000		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.49	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	31000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	760		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.071	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	55	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.82		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.010	J B	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	420		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	91		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.9		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.11	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	90		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.034	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.050		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.47		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.096		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	27		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5) (Continued)

Lab Sample ID: 500-98885-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.57		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.020	0.0070	mg/Kg	1	*	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.039	0.0076	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.029	J	0.039	0.011	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.033	J	0.039	0.0073	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.039	0.010	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.039		0.039	0.0078	mg/Kg	1	*	8270D	Total/NA
Aluminum	12000		12	2.8	mg/Kg	1	*	6010B	Total/NA
Antimony	0.30	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	5.8		0.58	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.76		0.23	0.050	mg/Kg	1	*	6010B	Total/NA
Chromium	20		0.58	0.099	mg/Kg	1	*	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	*	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	27000	B	5.8	2.3	mg/Kg	1	*	6010B	Total/NA
Calcium	55000	B	12	3.7	mg/Kg	1	*	6010B	Total/NA
Manganese	430		0.58	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.97		0.58	0.29	mg/Kg	1	*	6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1	*	6010B	Total/NA
Zinc	39	B	1.2	0.37	mg/Kg	1	*	6010B	Total/NA
Potassium	4300		29	4.7	mg/Kg	1	*	6010B	Total/NA
Sodium	320		58	7.6	mg/Kg	1	*	6010B	Total/NA
Aluminum	0.94		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	41		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.20	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	12		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	46		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	9.1		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11) (Continued)

Lab Sample ID: 500-98885-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	6.1		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.27		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9900		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.25	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	650		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	37	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0060		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	75		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0049		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	69		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.055		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5) (Continued)

Lab Sample ID: 500-98885-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.49		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9200		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	20		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	660		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	36	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.0		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	570		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.25		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.6		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.17	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	43		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.030	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	63		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.068		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11) (Continued)

Lab Sample ID: 500-98885-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.083		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	60		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.033		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.020		0.020	0.0068	mg/Kg	1	*	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9500		11	2.8	mg/Kg	1	*	6010B	Total/NA
Arsenic	4.8		0.56	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	31		0.56	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.57		0.23	0.049	mg/Kg	1	*	6010B	Total/NA
Chromium	16		0.56	0.097	mg/Kg	1	*	6010B	Total/NA
Cobalt	4.7		0.28	0.064	mg/Kg	1	*	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	*	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	31000	B	5.6	2.3	mg/Kg	1	*	6010B	Total/NA
Calcium	78000	B	110	36	mg/Kg	10	*	6010B	Total/NA
Manganese	380		0.56	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	19		0.56	0.15	mg/Kg	1	*	6010B	Total/NA
Selenium	0.36	J	0.56	0.28	mg/Kg	1	*	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	*	6010B	Total/NA
Zinc	37	B	1.1	0.36	mg/Kg	1	*	6010B	Total/NA
Potassium	3400		28	4.6	mg/Kg	1	*	6010B	Total/NA
Sodium	420		56	7.4	mg/Kg	1	*	6010B	Total/NA
Aluminum	0.99		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.023	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.14	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	39		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.022	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.077		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5) (Continued)

Lab Sample ID: 500-98885-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	53		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.39		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.33	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	36	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.021	J B	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.22	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.043	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.52		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0043		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.093		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11) (Continued)

Lab Sample ID: 500-98885-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	94		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.48		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.017		0.017	0.0060	mg/Kg	1	☆	7471B	Total/NA
pH	8.78		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-G02

Lab Sample ID: 500-98885-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00019		0.00012	0.000042	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.00020		0.00015	0.000060	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.000098	J	0.00015	0.000047	mg/L	1		8270D	Total/NA
Chrysene	0.00018	J	0.00037	0.000050	mg/L	1		8270D	Total/NA
Diethyl phthalate	0.00073	J	0.0015	0.00027	mg/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.00059	J	0.0037	0.00054	mg/L	1		8270D	Total/NA
Fluoranthene	0.00036	J	0.00074	0.00034	mg/L	1		8270D	Total/NA
Aluminum	74		0.50	0.27	mg/L	5		6020A	Total Recoverable
Arsenic	0.094		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.60		0.013	0.0042	mg/L	5		6020A	Total Recoverable
Beryllium	0.0068		0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Cadmium	0.0035		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	740		2.0	1.1	mg/L	10		6020A	Total Recoverable
Chromium	0.25		0.025	0.0030	mg/L	5		6020A	Total Recoverable
Cobalt	0.082		0.0050	0.00095	mg/L	5		6020A	Total Recoverable
Copper	0.41		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	220		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.20		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	220		1.0	0.42	mg/L	5		6020A	Total Recoverable
Manganese	3.9		0.013	0.0050	mg/L	5		6020A	Total Recoverable
Nickel	0.26		0.010	0.0026	mg/L	5		6020A	Total Recoverable
Potassium	12		2.5	0.95	mg/L	5		6020A	Total Recoverable
Selenium	0.0066		0.0025	0.00083	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-G02 (Continued)

Lab Sample ID: 500-98885-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.00054		0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	400		1.0	0.44	mg/L	5		6020A	Total Recoverable
Thallium	0.0033		0.0020	0.00059	mg/L	1		6020A	Total Recoverable
Vanadium	0.19		0.050	0.022	mg/L	10		6020A	Total Recoverable
Zinc	0.99		0.020	0.0046	mg/L	1		6020A	Total Recoverable
Cyanide, Total	0.011		0.010	0.0021	mg/L	1		9014	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98885-1	2682-4-B04 (0-5)	Solid	07/21/15 14:20	07/22/15 12:45
500-98885-2	2682-4-B04 (5-11)	Solid	07/21/15 14:25	07/22/15 12:45
500-98885-3	2682-4-B06 (0-5)	Solid	07/21/15 13:50	07/22/15 12:45
500-98885-4	2682-4-B06 (5-11)	Solid	07/21/15 13:55	07/22/15 12:45
500-98885-5	2682-4-B08 (0-5)	Solid	07/21/15 13:20	07/22/15 12:45
500-98885-6	2682-4-B08 (5-11)	Solid	07/21/15 13:25	07/22/15 12:45
500-98885-7	2682-4-B10 (0-5)	Solid	07/21/15 12:50	07/22/15 12:45
500-98885-8	2682-4-B10 (5-11)	Solid	07/21/15 13:00	07/22/15 12:45
500-98885-9	2682-4-B12 (0-5)	Solid	07/21/15 11:50	07/22/15 12:45
500-98885-10	2682-4-B12 (5-11)	Solid	07/21/15 12:00	07/22/15 12:45
500-98885-11	2682-4-B14A (0-4)	Solid	07/21/15 11:25	07/22/15 12:45
500-98885-12	2682-4-B16 (0-5)	Solid	07/21/15 10:55	07/22/15 12:45
500-98885-13	2682-4-B16 (5-11)	Solid	07/21/15 11:05	07/22/15 12:45
500-98885-14	2682-4-B18 (0-5)	Solid	07/21/15 10:25	07/22/15 12:45
500-98885-15	2682-4-B18 (5-11)	Solid	07/21/15 10:35	07/22/15 12:45
500-98885-16	2682-4-B24 (0-5)	Solid	07/21/15 09:50	07/22/15 12:45
500-98885-17	2682-4-B24 (5-11)	Solid	07/21/15 10:00	07/22/15 12:45
500-98885-18	2682-4-G02	Water	07/21/15 15:45	07/22/15 12:45

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 19:46	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Barium	0.28	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 19:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 19:46	1
Cadmium	0.0051		0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 19:46	1
Calcium	1200		25	5.0	mg/L		07/29/15 09:00	07/30/15 15:32	10
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Cobalt	0.026		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 19:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 19:46	1
Magnesium	260		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 19:46	1
Manganese	4.0		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Nickel	0.047		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Potassium	<2.5		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 19:46	1
Selenium	0.025	J	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 19:46	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:46	1
Zinc	0.057	J B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 00:46	1
Arsenic	0.049	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Barium	0.51		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 00:46	1
Beryllium	0.0072		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 00:46	1
Calcium	39		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 00:46	1
Chromium	0.16		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Cobalt	0.036		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Copper	0.15		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Iron	140		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 00:46	1
Lead	0.049		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 00:46	1
Magnesium	42		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 00:46	1
Manganese	0.57		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Nickel	0.15		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Potassium	33		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 00:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 00:46	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Vanadium	0.19		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 00:46	1
Zinc	0.34		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 00:46	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		07/29/15 09:00	07/31/15 13:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0036		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.00		0.200	0.200	SU	-		07/24/15 09:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/22/15 15:35	07/24/15 11:26	1
Dibromofluoromethane	101		75 - 120	07/22/15 15:35	07/24/15 11:26	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/22/15 15:35	07/24/15 11:26	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 11:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
1,3-Dichlorobenzene	<0.19	F1 F2	0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		25 - 119	07/24/15 11:00	07/30/15 00:04	1
2-Fluorophenol	72		25 - 110	07/24/15 11:00	07/30/15 00:04	1
Nitrobenzene-d5	74		25 - 115	07/24/15 11:00	07/30/15 00:04	1
Phenol-d5	84		31 - 110	07/24/15 11:00	07/30/15 00:04	1
Terphenyl-d14	78		36 - 134	07/24/15 11:00	07/30/15 00:04	1
2,4,6-Tribromophenol	48		35 - 137	07/24/15 11:00	07/30/15 00:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	2.9	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Antimony	0.56	J F1	1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Arsenic	6.7		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Barium	51		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Beryllium	0.79		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Cadmium	<0.12	F1	0.12	0.034	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Chromium	20		0.58	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Cobalt	8.4		0.29	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Copper	20		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Iron	20000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Lead	9.6	F2 F1	0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Magnesium	30000	F2 B	5.8	2.4	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Calcium	53000	B F2	12	3.7	mg/Kg	☼	07/24/15 10:00	07/27/15 03:14	1
Manganese	440		0.58	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Nickel	24		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Selenium	0.39	J F1	0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 03:14	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Thallium	<0.58	F1	0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 03:14	1
Vanadium	26		0.29	0.085	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Zinc	39	F2 F1 B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Potassium	3500		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1
Sodium	1200		58	7.7	mg/Kg	☼	07/24/15 10:00	07/25/15 09:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0062	mg/Kg	☼	07/29/15 15:30	07/30/15 11:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (0-5)

Lab Sample ID: 500-98885-1

Date Collected: 07/21/15 14:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.35		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 19:51	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Barium	0.34	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 19:51	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 19:51	1
Calcium	600		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 19:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Iron	0.26		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 19:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 19:51	1
Magnesium	51		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 19:51	1
Manganese	0.78		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Potassium	1.9	J	2.5	0.50	mg/L		07/29/15 09:00	07/29/15 19:51	1
Selenium	0.021	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 19:51	1
Zinc	0.023	J B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 19:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:13	1
Arsenic	<0.050		0.050	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Barium	0.33	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 01:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 01:13	1
Calcium	56		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:13	1
Chromium	0.035		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Cobalt	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Copper	0.037		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Iron	25		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:13	1
Lead	0.014		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 01:13	1
Magnesium	20		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:13	1
Manganese	0.18		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Nickel	0.029		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Potassium	11		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 01:13	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Vanadium	0.042		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:13	1
Zinc	0.22		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 01:13	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		07/29/15 09:00	07/31/15 13:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 13:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU	-		07/24/15 09:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0039	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/22/15 15:35	07/24/15 11:50	1
Dibromofluoromethane	98		75 - 120	07/22/15 15:35	07/24/15 11:50	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/22/15 15:35	07/24/15 11:50	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 11:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	49		25 - 119	07/24/15 11:00	07/30/15 00:28	1
2-Fluorophenol	60		25 - 110	07/24/15 11:00	07/30/15 00:28	1
Nitrobenzene-d5	60		25 - 115	07/24/15 11:00	07/30/15 00:28	1
Phenol-d5	69		31 - 110	07/24/15 11:00	07/30/15 00:28	1
Terphenyl-d14	68		36 - 134	07/24/15 11:00	07/30/15 00:28	1
2,4,6-Tribromophenol	28	X	35 - 137	07/24/15 11:00	07/30/15 00:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Antimony	0.23	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Barium	42		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Beryllium	0.64		0.22	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Chromium	17		0.56	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Cobalt	9.6		0.28	0.063	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Copper	18		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Iron	17000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Lead	9.6		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Magnesium	32000	B	5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Calcium	84000	B	110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 07:32	10
Manganese	520		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Nickel	27		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:47	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:47	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Zinc	40	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Potassium	3700		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1
Sodium	220		56	7.4	mg/Kg	☼	07/24/15 10:00	07/25/15 09:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0062	mg/Kg	☼	07/29/15 15:30	07/30/15 11:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B04 (5-11)

Lab Sample ID: 500-98885-2

Date Collected: 07/21/15 14:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	07/27/15 16:30	07/27/15 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.57		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:03	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Barium	0.36	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:03	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:03	1
Calcium	590		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:03	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:03	1
Magnesium	35		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:03	1
Manganese	1.8		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Nickel	0.014	J	0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Potassium	1.3	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 15:36	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:03	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:03	1
Zinc	0.066	J B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	56		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:20	1
Arsenic	0.018	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Barium	0.48	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 01:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 01:20	1
Calcium	25		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:20	1
Chromium	0.076		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Copper	0.080		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Iron	58		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:20	1
Lead	0.026		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 01:20	1
Magnesium	19		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:20	1
Manganese	0.46		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Nickel	0.069		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Potassium	14		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 01:20	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Vanadium	0.097		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:20	1
Zinc	0.34		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 01:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/29/15 09:00	07/31/15 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.89		0.200	0.200	SU	-		07/24/15 09:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0093		0.0042	0.0032	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Chloroethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Tetrachloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00080	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/22/15 15:35	07/24/15 12:14	1
Dibromofluoromethane	103		75 - 120	07/22/15 15:35	07/24/15 12:14	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/22/15 15:35	07/24/15 12:14	1
Toluene-d8 (Surr)	94		75 - 122	07/22/15 15:35	07/24/15 12:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	07/24/15 11:00	07/30/15 00:52	1
2-Fluorophenol	52		25 - 110	07/24/15 11:00	07/30/15 00:52	1
Nitrobenzene-d5	64		25 - 115	07/24/15 11:00	07/30/15 00:52	1
Phenol-d5	56		31 - 110	07/24/15 11:00	07/30/15 00:52	1
Terphenyl-d14	71		36 - 134	07/24/15 11:00	07/30/15 00:52	1
2,4,6-Tribromophenol	44		35 - 137	07/24/15 11:00	07/30/15 00:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7200		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Antimony	0.32	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Arsenic	8.8		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Barium	27		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Beryllium	0.51		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Chromium	12		0.57	0.098	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Cobalt	7.1		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Copper	23		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Iron	17000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Lead	9.0		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Magnesium	31000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Calcium	88000	B	110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 07:39	10
Manganese	470		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Nickel	20		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Selenium	0.55	J	0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:52	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:52	1
Vanadium	18		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Zinc	38	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Potassium	2300		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1
Sodium	420		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0066	mg/Kg	☼	07/29/15 15:30	07/30/15 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (0-5)

Lab Sample ID: 500-98885-3

Date Collected: 07/21/15 13:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/27/15 16:30	07/27/15 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:08	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Barium	0.36	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:08	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:08	1
Calcium	540		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:08	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Iron	0.39		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:08	1
Magnesium	54		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:08	1
Manganese	0.90		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Potassium	2.3	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 15:41	1
Selenium	0.020	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:08	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:08	1
Zinc	0.24	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	35		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:27	1
Arsenic	0.019	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Barium	0.36	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 01:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 01:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 01:27	1
Calcium	37		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:27	1
Chromium	0.052		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Copper	0.069		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Iron	46		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:27	1
Lead	0.021		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 01:27	1
Magnesium	19		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:27	1
Manganese	0.28		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Nickel	0.053		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Potassium	13		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 01:27	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Vanadium	0.068		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:27	1
Zinc	0.29		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 01:27	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		07/29/15 09:00	07/31/15 14:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.67		0.200	0.200	SU	-		07/24/15 09:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/22/15 15:35	07/24/15 12:39	1
Dibromofluoromethane	104		75 - 120	07/22/15 15:35	07/24/15 12:39	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/22/15 15:35	07/24/15 12:39	1
Toluene-d8 (Surr)	97		75 - 122	07/22/15 15:35	07/24/15 12:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/24/15 11:00	07/30/15 01:16	1
2-Fluorophenol	64		25 - 110	07/24/15 11:00	07/30/15 01:16	1
Nitrobenzene-d5	61		25 - 115	07/24/15 11:00	07/30/15 01:16	1
Phenol-d5	69		31 - 110	07/24/15 11:00	07/30/15 01:16	1
Terphenyl-d14	73		36 - 134	07/24/15 11:00	07/30/15 01:16	1
2,4,6-Tribromophenol	41		35 - 137	07/24/15 11:00	07/30/15 01:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Antimony	0.38	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Arsenic	6.3		0.57	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Barium	42		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Chromium	18		0.57	0.099	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Cobalt	9.0		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Copper	21		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Iron	18000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Lead	9.3		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Magnesium	32000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Calcium	92000	B	110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 07:46	10
Manganese	500		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Nickel	23		0.57	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Selenium	0.36	J	0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:57	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 03:57	1
Vanadium	22		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Zinc	39	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Potassium	3700		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1
Sodium	330		57	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0063	mg/Kg	☼	07/29/15 15:30	07/30/15 11:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B06 (5-11)

Lab Sample ID: 500-98885-4

Date Collected: 07/21/15 13:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 19:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Date Collected: 07/21/15 13:20

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:14	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Barium	0.50		0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:14	1
Cadmium	0.0053		0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:14	1
Calcium	1400		25	5.0	mg/L		07/29/15 09:00	07/30/15 15:51	10
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:14	1
Magnesium	130		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:14	1
Manganese	2.8		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Nickel	0.029		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Potassium	2.0	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 15:46	1
Selenium	0.023	J	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:14	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:14	1
Zinc	0.13	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:34	1
Arsenic	0.029	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Barium	0.53		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 01:34	1
Beryllium	0.0042		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 01:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 01:34	1
Calcium	66		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:34	1
Chromium	0.092		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Cobalt	0.020	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Copper	0.092		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Iron	77		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:34	1
Lead	0.035		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 01:34	1
Magnesium	31		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:34	1
Manganese	0.38		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Nickel	0.078		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Potassium	23		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 01:34	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Vanadium	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:34	1
Zinc	0.39		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 01:34	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		07/29/15 09:00	07/31/15 14:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Date Collected: 07/21/15 13:20

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU	-		07/24/15 09:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Date Collected: 07/21/15 13:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0035	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Bromoform	<0.0045		0.0045	0.00093	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Chloroform	<0.0045		0.0045	0.00089	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,1-Dichloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/22/15 15:35	07/24/15 13:03	1
Dibromofluoromethane	106		75 - 120	07/22/15 15:35	07/24/15 13:03	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/22/15 15:35	07/24/15 13:03	1
Toluene-d8 (Surr)	94		75 - 122	07/22/15 15:35	07/24/15 13:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Date Collected: 07/21/15 13:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Fluoranthene	0.0078 J		0.038	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Lab Sample ID: 500-98885-5

Date Collected: 07/21/15 13:20

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
Pyrene	0.0084	J	0.038	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/24/15 11:00	07/30/15 01:40	1
2-Fluorophenol	66		25 - 110	07/24/15 11:00	07/30/15 01:40	1
Nitrobenzene-d5	75		25 - 115	07/24/15 11:00	07/30/15 01:40	1
Phenol-d5	72		31 - 110	07/24/15 11:00	07/30/15 01:40	1
Terphenyl-d14	84		36 - 134	07/24/15 11:00	07/30/15 01:40	1
2,4,6-Tribromophenol	54		35 - 137	07/24/15 11:00	07/30/15 01:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Antimony	0.49	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Arsenic	5.0		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Barium	45		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Beryllium	0.59		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Chromium	16		0.57	0.098	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Cobalt	5.3		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Copper	16		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Iron	16000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Lead	8.3		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Magnesium	28000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Calcium	86000	B	110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 07:53	10
Manganese	390		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Nickel	17		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Selenium	0.28	J	0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:03	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:03	1
Vanadium	19		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Zinc	34	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Potassium	3300		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1
Sodium	680		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0058	mg/Kg	☼	07/29/15 15:30	07/30/15 11:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (0-5)

Date Collected: 07/21/15 13:20

Date Received: 07/22/15 12:45

Lab Sample ID: 500-98885-5

Matrix: Solid

Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 19:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.88		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:19	1
Arsenic	0.012	J	0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Barium	0.46	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:19	1
Cadmium	0.0053		0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:19	1
Calcium	1300		25	5.0	mg/L		07/29/15 09:00	07/30/15 16:01	10
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Cobalt	0.032		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:19	1
Magnesium	160		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:19	1
Manganese	2.7		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Nickel	0.038		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Potassium	2.1	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 15:55	1
Selenium	0.027	J	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:19	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:19	1
Zinc	0.12	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:56	1
Arsenic	0.026	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Barium	0.44	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 01:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 01:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 01:56	1
Calcium	55		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:56	1
Chromium	0.069		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Copper	0.080		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Iron	57		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 01:56	1
Lead	0.024		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 01:56	1
Magnesium	29		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:56	1
Manganese	0.29		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Nickel	0.066		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Potassium	17		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 01:56	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 01:56	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Vanadium	0.079		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 01:56	1
Zinc	0.36		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 01:56	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		07/29/15 09:00	07/31/15 14:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:43	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.67		0.200	0.200	SU	-		07/24/15 09:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/22/15 15:35	07/24/15 13:27	1
Dibromofluoromethane	109		75 - 120	07/22/15 15:35	07/24/15 13:27	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/22/15 15:35	07/24/15 13:27	1
Toluene-d8 (Surr)	95		75 - 122	07/22/15 15:35	07/24/15 13:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 11:00	07/30/15 02:04	1
2-Fluorophenol	72		25 - 110	07/24/15 11:00	07/30/15 02:04	1
Nitrobenzene-d5	72		25 - 115	07/24/15 11:00	07/30/15 02:04	1
Phenol-d5	77		31 - 110	07/24/15 11:00	07/30/15 02:04	1
Terphenyl-d14	78		36 - 134	07/24/15 11:00	07/30/15 02:04	1
2,4,6-Tribromophenol	49		35 - 137	07/24/15 11:00	07/30/15 02:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Antimony	0.37	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Arsenic	5.7		0.55	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Barium	36		0.55	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Beryllium	0.57		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Chromium	15		0.55	0.095	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Cobalt	6.3		0.28	0.062	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Copper	18		0.55	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Iron	16000		11	4.2	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Lead	7.8		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Magnesium	34000	B	5.5	2.2	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Calcium	100000	B	110	35	mg/Kg	☼	07/24/15 10:00	07/27/15 07:59	10
Manganese	360		0.55	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Nickel	19		0.55	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Selenium	0.33	J	0.55	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 04:08	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 04:08	1
Vanadium	19		0.28	0.080	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Zinc	34	B	1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Potassium	3300		28	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1
Sodium	470		55	7.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0060	mg/Kg	☼	07/29/15 15:30	07/30/15 11:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B08 (5-11)

Lab Sample ID: 500-98885-6

Date Collected: 07/21/15 13:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:24	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Barium	0.49	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:24	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:24	1
Calcium	310		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:24	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Iron	0.21		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:24	1
Magnesium	140		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:24	1
Manganese	2.8		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Nickel	0.013	J	0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Potassium	3.3		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:05	1
Selenium	0.023	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:24	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:24	1
Zinc	0.13	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	150		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:03	1
Arsenic	0.077		0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Barium	0.85		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:03	1
Beryllium	0.0090		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:03	1
Calcium	26		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:03	1
Chromium	0.20		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Cobalt	0.047		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Copper	0.22		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Iron	190		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:03	1
Lead	0.10		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:03	1
Magnesium	43		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:03	1
Manganese	0.96		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Nickel	0.19		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Potassium	35		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:03	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Vanadium	0.25		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:03	1
Zinc	0.65		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:03	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		07/29/15 09:00	07/31/15 14:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0037		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.66		0.200	0.200	SU	-		07/24/15 09:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.0054	0.0042	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Vinyl acetate	<0.0054		0.0054	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122	07/22/15 15:35	07/24/15 13:52	1
Dibromofluoromethane	107		75 - 120	07/22/15 15:35	07/24/15 13:52	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/22/15 15:35	07/24/15 13:52	1
Toluene-d8 (Surr)	92		75 - 122	07/22/15 15:35	07/24/15 13:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Benzo[a]anthracene	0.030	J	0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.028	J	0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Benzo[b]fluoranthene	0.039		0.039	0.0084	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Benzo[k]fluoranthene	0.019	J	0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Chrysene	0.032	J	0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Fluoranthene	0.059		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Phenanthrene	0.044		0.039	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
Pyrene	0.044		0.039	0.0077	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	07/24/15 11:00	07/30/15 02:27	1
2-Fluorophenol	67		25 - 110	07/24/15 11:00	07/30/15 02:27	1
Nitrobenzene-d5	50		25 - 115	07/24/15 11:00	07/30/15 02:27	1
Phenol-d5	31		31 - 110	07/24/15 11:00	07/30/15 02:27	1
Terphenyl-d14	72		36 - 134	07/24/15 11:00	07/30/15 02:27	1
2,4,6-Tribromophenol	47		35 - 137	07/24/15 11:00	07/30/15 02:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	2.9	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Antimony	0.28	J	1.2	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Arsenic	7.5		0.59	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Barium	72		0.59	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Beryllium	0.85		0.24	0.051	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Chromium	22		0.59	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Cobalt	11		0.30	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Copper	28		0.59	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Iron	22000		12	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Lead	29		0.30	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Magnesium	7300	B	5.9	2.4	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Calcium	8000	B	12	3.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Manganese	230		0.59	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Nickel	24		0.59	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Selenium	0.65		0.59	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 04:13	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 04:13	1
Vanadium	30		0.30	0.086	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Zinc	76	B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Potassium	2600		30	4.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1
Sodium	1500		59	7.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0065	mg/Kg	☼	07/29/15 15:30	07/30/15 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (0-5)

Lab Sample ID: 500-98885-7

Date Collected: 07/21/15 12:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:41	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Barium	0.40	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:41	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:41	1
Calcium	570		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:41	1
Magnesium	51		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:41	1
Manganese	0.66		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Potassium	3.2		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:32	1
Selenium	0.020	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:41	1
Zinc	0.14	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	53		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:10	1
Arsenic	0.028	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Barium	0.47	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:10	1
Calcium	53		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:10	1
Chromium	0.081		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Cobalt	0.018	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Copper	0.094		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Iron	69		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:10	1
Lead	0.031		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:10	1
Magnesium	34		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:10	1
Manganese	0.33		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Nickel	0.077		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Potassium	20		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:10	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Vanadium	0.091		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:10	1
Zinc	0.37		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:10	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		07/29/15 09:00	07/31/15 14:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU	-		07/24/15 09:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/22/15 15:35	07/24/15 14:16	1
Dibromofluoromethane	106		75 - 120	07/22/15 15:35	07/24/15 14:16	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/22/15 15:35	07/24/15 14:16	1
Toluene-d8 (Surr)	97		75 - 122	07/22/15 15:35	07/24/15 14:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 11:00	07/30/15 02:51	1
2-Fluorophenol	66		25 - 110	07/24/15 11:00	07/30/15 02:51	1
Nitrobenzene-d5	67		25 - 115	07/24/15 11:00	07/30/15 02:51	1
Phenol-d5	81		31 - 110	07/24/15 11:00	07/30/15 02:51	1
Terphenyl-d14	80		36 - 134	07/24/15 11:00	07/30/15 02:51	1
2,4,6-Tribromophenol	37		35 - 137	07/24/15 11:00	07/30/15 02:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8700		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Arsenic	5.8		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Barium	33		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Beryllium	0.55		0.22	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Chromium	15		0.56	0.096	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Cobalt	9.1		0.28	0.063	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Copper	19		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Iron	16000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Lead	8.7		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Magnesium	35000	B	5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Calcium	93000	B	110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 08:06	10
Manganese	620		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Nickel	23		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Selenium	0.66		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:18	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:18	1
Vanadium	18		0.28	0.082	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Zinc	36	B	1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Potassium	3100		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1
Sodium	260		56	7.4	mg/Kg	☼	07/24/15 10:00	07/25/15 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0062	mg/Kg	☼	07/29/15 15:30	07/30/15 11:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B10 (5-11)

Lab Sample ID: 500-98885-8

Date Collected: 07/21/15 13:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Date Collected: 07/21/15 11:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.89		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:46	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Barium	0.39	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:46	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:46	1
Calcium	570		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:46	1
Magnesium	35		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:46	1
Manganese	0.33		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Potassium	2.0	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:37	1
Selenium	0.023	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:46	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:46	1
Zinc	0.11	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	110		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:16	1
Arsenic	0.050		0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Barium	0.66		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:16	1
Beryllium	0.0069		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:16	1
Calcium	47		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:16	1
Chromium	0.15		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Cobalt	0.032		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Copper	0.16		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Iron	140		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:16	1
Lead	0.052		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:16	1
Magnesium	43		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:16	1
Manganese	0.53		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Nickel	0.14		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Potassium	33		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:16	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:16	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Vanadium	0.18		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:16	1
Zinc	0.51		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/29/15 09:00	07/31/15 14:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Date Collected: 07/21/15 11:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0030		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.76		0.200	0.200	SU	-		07/24/15 09:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Date Collected: 07/21/15 11:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0039	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/22/15 15:35	07/24/15 14:40	1
Dibromofluoromethane	106		75 - 120	07/22/15 15:35	07/24/15 14:40	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/22/15 15:35	07/24/15 14:40	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 14:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Anthracene	0.021	J	0.039	0.0065	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Benzo[a]anthracene	0.034	J	0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Date Collected: 07/21/15 11:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.031	J	0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Benzo[b]fluoranthene	0.044		0.039	0.0084	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Benzo[g,h,i]perylene	0.021	J	0.039	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Benzo[k]fluoranthene	0.019	J	0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Chrysene	0.035	J	0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Fluoranthene	0.089		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Fluorene	0.010	J	0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Lab Sample ID: 500-98885-9

Date Collected: 07/21/15 11:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Phenanthrene	0.070		0.039	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
Pyrene	0.071		0.039	0.0077	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/24/15 11:00	07/30/15 03:15	1
2-Fluorophenol	88		25 - 110	07/24/15 11:00	07/30/15 03:15	1
Nitrobenzene-d5	94		25 - 115	07/24/15 11:00	07/30/15 03:15	1
Phenol-d5	91		31 - 110	07/24/15 11:00	07/30/15 03:15	1
Terphenyl-d14	98		36 - 134	07/24/15 11:00	07/30/15 03:15	1
2,4,6-Tribromophenol	51		35 - 137	07/24/15 11:00	07/30/15 03:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Antimony	0.60	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Arsenic	8.0		0.57	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Barium	36		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Beryllium	0.68		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Chromium	18		0.57	0.099	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Cobalt	9.7		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Copper	23		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Iron	22000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Lead	14		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:31	1
Magnesium	31000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Calcium	87000	B	110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 08:13	10
Manganese	550		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Nickel	30		0.57	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Selenium	0.29	J	0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:31	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:31	1
Vanadium	25		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Zinc	48	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Potassium	3300		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1
Sodium	1300		57	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0062	mg/Kg	☼	07/29/15 15:30	07/30/15 11:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (0-5)

Date Collected: 07/21/15 11:50

Date Received: 07/22/15 12:45

Lab Sample ID: 500-98885-9

Matrix: Solid

Percent Solids: 84.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:59	1
Arsenic	0.011	J B	0.050	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Barium	0.41	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 20:59	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 20:59	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 20:59	1
Calcium	550		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:59	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Iron	0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 20:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 20:59	1
Magnesium	46		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 20:59	1
Manganese	1.4		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Potassium	2.9		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:43	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 20:59	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 20:59	1
Zinc	0.20	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 20:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	30		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:23	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Barium	0.42	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:23	1
Calcium	62		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:23	1
Chromium	0.045		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Copper	0.051		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Iron	33		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:23	1
Lead	0.017		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:23	1
Magnesium	22		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:23	1
Manganese	0.31		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Nickel	0.037		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Potassium	13		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:23	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Vanadium	0.050		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:23	1
Zinc	0.31		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:23	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		07/29/15 09:00	07/31/15 14:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU	-		07/24/15 09:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0033	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 122	07/22/15 15:35	07/24/15 15:04	1
Dibromofluoromethane	103		75 - 120	07/22/15 15:35	07/24/15 15:04	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/22/15 15:35	07/24/15 15:04	1
Toluene-d8 (Surr)	95		75 - 122	07/22/15 15:35	07/24/15 15:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Benzo[a]anthracene	0.0094	J	0.038	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Chrysene	0.019	J	0.038	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Phenanthrene	0.011	J	0.038	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
Pyrene	0.021	J	0.038	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 11:00	07/30/15 03:39	1
2-Fluorophenol	62		25 - 110	07/24/15 11:00	07/30/15 03:39	1
Nitrobenzene-d5	69		25 - 115	07/24/15 11:00	07/30/15 03:39	1
Phenol-d5	75		31 - 110	07/24/15 11:00	07/30/15 03:39	1
Terphenyl-d14	81		36 - 134	07/24/15 11:00	07/30/15 03:39	1
2,4,6-Tribromophenol	34	X	35 - 137	07/24/15 11:00	07/30/15 03:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Arsenic	5.3		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Barium	37		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Chromium	17		0.56	0.096	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Cobalt	7.4		0.28	0.063	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Copper	21		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Iron	17000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Lead	12		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:36	1
Magnesium	30000	B	5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Calcium	77000	B	110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 08:48	10
Manganese	410		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Nickel	22		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Selenium	0.44	J	0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:36	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 04:36	1
Vanadium	19		0.28	0.081	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Zinc	39	B	1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Potassium	3400		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1
Sodium	200		56	7.4	mg/Kg	☼	07/24/15 10:00	07/25/15 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0060	mg/Kg	☼	07/29/15 15:30	07/30/15 11:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B12 (5-11)

Lab Sample ID: 500-98885-10

Date Collected: 07/21/15 12:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:04	1
Arsenic	0.011	J B	0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Barium	0.47	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:04	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:04	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:04	1
Calcium	350		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:04	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:04	1
Magnesium	120		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:04	1
Manganese	0.68		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Potassium	3.4		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:48	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:04	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:04	1
Zinc	0.27	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	99		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:30	1
Arsenic	0.034	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Barium	0.74		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:30	1
Beryllium	0.0053		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:30	1
Calcium	31		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:30	1
Chromium	0.13		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Cobalt	0.029		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Copper	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Iron	110		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:30	1
Lead	0.081		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:30	1
Magnesium	28		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:30	1
Manganese	0.93		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Nickel	0.10		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Potassium	24		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:30	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:30	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Vanadium	0.17		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:30	1
Zinc	0.61		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:30	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		07/29/15 09:00	07/31/15 14:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 12:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0022		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 12:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU	-		07/24/15 09:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0039	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/22/15 15:35	07/24/15 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	07/22/15 15:35	07/24/15 15:28	1
Dibromofluoromethane	108		75 - 120	07/22/15 15:35	07/24/15 15:28	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/22/15 15:35	07/24/15 15:28	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 15:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Acenaphthylene	0.0051	J	0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Anthracene	0.034	J	0.037	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Benzo[a]anthracene	0.099		0.037	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.092		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Benzo[b]fluoranthene	0.14		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Benzo[g,h,i]perylene	0.24		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Benzo[k]fluoranthene	0.057		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Chrysene	0.12		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Fluoranthene	0.20		0.037	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Fluorene	0.010 J		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Indeno[1,2,3-cd]pyrene	0.060		0.037	0.0098	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Phenanthrene	0.13		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
Pyrene	0.18		0.037	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/24/15 11:00	07/30/15 07:36	1
2-Fluorophenol	64		25 - 110	07/24/15 11:00	07/30/15 07:36	1
Nitrobenzene-d5	67		25 - 115	07/24/15 11:00	07/30/15 07:36	1
Phenol-d5	75		31 - 110	07/24/15 11:00	07/30/15 07:36	1
Terphenyl-d14	76		36 - 134	07/24/15 11:00	07/30/15 07:36	1
2,4,6-Tribromophenol	55		35 - 137	07/24/15 11:00	07/30/15 07:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		12	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Antimony	0.38	J	1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Arsenic	7.0		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Barium	86		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Beryllium	0.67		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Cadmium	0.049	J	0.12	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Chromium	15		0.58	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Cobalt	8.9		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Copper	20		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Iron	19000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Lead	31		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:41	1
Magnesium	20000	B	5.8	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Calcium	36000	B	12	3.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Manganese	620		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Nickel	19		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Selenium	0.57	J	0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 04:41	1
Silver	0.072	J	0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:41	1
Vanadium	22		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Zinc	71	B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Potassium	2100		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1
Sodium	1200		58	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.020	0.0069	mg/Kg	☼	07/29/15 15:30	07/30/15 11:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B14A (0-4)

Lab Sample ID: 500-98885-11

Date Collected: 07/21/15 11:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.82		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:08	1
Arsenic	0.010	J B	0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Barium	0.48	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:08	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:08	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:08	1
Calcium	420		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:08	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:08	1
Magnesium	91		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:08	1
Manganese	0.51		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Potassium	5.9		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:53	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:08	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:08	1
Zinc	0.11	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	90		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:37	1
Arsenic	0.034	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Barium	0.75		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:37	1
Beryllium	0.0052		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:37	1
Calcium	32		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:37	1
Chromium	0.12		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Cobalt	0.024	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Copper	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Iron	110		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:37	1
Lead	0.050		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:37	1
Magnesium	30		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:37	1
Manganese	0.47		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Nickel	0.096		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Potassium	27		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:37	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Vanadium	0.15		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:37	1
Zinc	0.57		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:37	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		07/29/15 09:00	07/31/15 14:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU	-		07/24/15 09:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.0065	0.0050	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Benzene	<0.0065		0.0065	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Bromodichloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Bromoform	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Bromomethane	<0.0065		0.0065	0.0024	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
2-Butanone (MEK)	<0.0065		0.0065	0.0023	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Carbon disulfide	<0.0065		0.0065	0.0024	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Carbon tetrachloride	<0.0065		0.0065	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Chlorobenzene	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Chloroethane	<0.0065		0.0065	0.0027	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Chloroform	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Chloromethane	<0.0065		0.0065	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
cis-1,2-Dichloroethene	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
cis-1,3-Dichloropropene	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Dibromochloromethane	<0.0065		0.0065	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,1-Dichloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,2-Dichloroethane	<0.0065		0.0065	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,1-Dichloroethene	<0.0065		0.0065	0.0024	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,2-Dichloropropane	<0.0065		0.0065	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,3-Dichloropropene, Total	<0.0065		0.0065	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Ethylbenzene	<0.0065		0.0065	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
2-Hexanone	<0.0065		0.0065	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Methylene Chloride	<0.0065		0.0065	0.0049	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Methyl tert-butyl ether	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Styrene	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,1,2,2-Tetrachloroethane	<0.0065		0.0065	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Tetrachloroethene	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Toluene	<0.0065		0.0065	0.0023	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
trans-1,2-Dichloroethene	<0.0065		0.0065	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
trans-1,3-Dichloropropene	<0.0065		0.0065	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,1,1-Trichloroethane	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
1,1,2-Trichloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Trichloroethene	<0.0065		0.0065	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Vinyl acetate	<0.0065		0.0065	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Vinyl chloride	<0.0065		0.0065	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1
Xylenes, Total	<0.013		0.013	0.0024	mg/Kg	☼	07/22/15 15:35	07/24/15 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 122	07/22/15 15:35	07/24/15 15:53	1
Dibromofluoromethane	107		75 - 120	07/22/15 15:35	07/24/15 15:53	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/22/15 15:35	07/24/15 15:53	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 15:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Anthracene	0.055		0.039	0.0065	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Benzo[a]anthracene	0.096		0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.086		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Benzo[g,h,i]perylene	0.050		0.039	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Benzo[k]fluoranthene	0.043		0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Chrysene	0.089		0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Fluoranthene	0.21		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Fluorene	0.015 J		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Indeno[1,2,3-cd]pyrene	0.045		0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Phenanthrene	0.17		0.039	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
Pyrene	0.20		0.039	0.0077	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	07/24/15 11:00	07/30/15 04:03	1
2-Fluorophenol	60		25 - 110	07/24/15 11:00	07/30/15 04:03	1
Nitrobenzene-d5	63		25 - 115	07/24/15 11:00	07/30/15 04:03	1
Phenol-d5	70		31 - 110	07/24/15 11:00	07/30/15 04:03	1
Terphenyl-d14	89		36 - 134	07/24/15 11:00	07/30/15 04:03	1
2,4,6-Tribromophenol	50		35 - 137	07/24/15 11:00	07/30/15 04:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Antimony	0.49	J	1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Arsenic	8.5		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Barium	61		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Beryllium	0.67		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Cobalt	8.9		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Copper	21		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Iron	23000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Lead	22		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:46	1
Magnesium	19000	B	5.8	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Calcium	31000	B	12	3.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Manganese	760		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Selenium	0.82		0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 04:46	1
Silver	0.071	J	0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:46	1
Vanadium	25		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Zinc	55	B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Potassium	2500		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1
Sodium	1400		58	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0070	mg/Kg	☼	07/29/15 15:30	07/30/15 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (0-5)

Lab Sample ID: 500-98885-12

Date Collected: 07/21/15 10:55

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 83.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/27/15 20:30	07/27/15 22:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.94		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:12	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Barium	0.47	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:12	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:12	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:12	1
Calcium	540		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:58	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:12	1
Magnesium	41		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:12	1
Manganese	1.0		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Potassium	3.4		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 16:58	1
Selenium	0.022	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:12	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:12	1
Zinc	0.20	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:43	1
Arsenic	<0.050		0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Barium	0.35	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:43	1
Calcium	46		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:43	1
Chromium	0.019	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Cobalt	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Copper	0.023	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Iron	9.1		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:43	1
Magnesium	11		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:43	1
Manganese	0.12		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Nickel	0.013	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Potassium	6.1		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:43	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Vanadium	0.018	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:43	1
Zinc	0.27		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:43	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		07/29/15 09:00	07/31/15 14:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:53	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU	-		07/24/15 09:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0037	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Bromomethane	<0.0048		0.0048	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Carbon disulfide	<0.0048		0.0048	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/22/15 15:35	07/24/15 16:17	1
Dibromofluoromethane	103		75 - 120	07/22/15 15:35	07/24/15 16:17	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/22/15 15:35	07/24/15 16:17	1
Toluene-d8 (Surr)	96		75 - 122	07/22/15 15:35	07/24/15 16:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.017	J	0.039	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Chrysene	0.029	J	0.039	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Fluoranthene	0.033	J	0.039	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.039	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
Pyrene	0.039		0.039	0.0078	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		25 - 119	07/24/15 11:00	07/30/15 04:26	1
2-Fluorophenol	76		25 - 110	07/24/15 11:00	07/30/15 04:26	1
Nitrobenzene-d5	75		25 - 115	07/24/15 11:00	07/30/15 04:26	1
Phenol-d5	85		31 - 110	07/24/15 11:00	07/30/15 04:26	1
Terphenyl-d14	81		36 - 134	07/24/15 11:00	07/30/15 04:26	1
2,4,6-Tribromophenol	52		35 - 137	07/24/15 11:00	07/30/15 04:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Antimony	0.30	J	1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Arsenic	5.8		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Barium	49		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Beryllium	0.76		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Chromium	20		0.58	0.099	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Cobalt	10		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Copper	22		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Iron	19000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Lead	12		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:51	1
Magnesium	27000	B	5.8	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Calcium	55000	B	12	3.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Manganese	430		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Nickel	27		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Selenium	0.97		0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 04:51	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:51	1
Vanadium	24		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Zinc	39	B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Potassium	4300		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1
Sodium	320		58	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0063	mg/Kg	☼	07/29/15 15:30	07/30/15 11:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B16 (5-11)

Lab Sample ID: 500-98885-13

Date Collected: 07/21/15 11:05

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 20:30	07/27/15 22:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Barium	0.29	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:17	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:17	1
Cadmium	0.0060		0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:17	1
Calcium	1300		25	5.0	mg/L		07/29/15 09:00	07/30/15 17:13	10
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Cobalt	0.020	J	0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:17	1
Magnesium	170		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:17	1
Manganese	2.2		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Nickel	0.022	J	0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Potassium	3.8		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:08	1
Selenium	<0.050		0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:17	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:17	1
Zinc	0.14	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	75		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:50	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Barium	0.47	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:50	1
Beryllium	0.0049		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:50	1
Calcium	69		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:50	1
Chromium	0.12		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Cobalt	0.026		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Copper	0.12		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Iron	110		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:50	1
Lead	0.055		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:50	1
Magnesium	40		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:50	1
Manganese	0.40		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Nickel	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Potassium	26		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:50	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Vanadium	0.12		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:50	1
Zinc	0.49		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:50	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		07/29/15 09:00	07/31/15 14:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0022		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU	-		07/24/15 09:49	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 122	07/22/15 15:35	07/24/15 16:41	1
Dibromofluoromethane	105		75 - 120	07/22/15 15:35	07/24/15 16:41	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/22/15 15:35	07/24/15 16:41	1
Toluene-d8 (Surr)	94		75 - 122	07/22/15 15:35	07/24/15 16:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/24/15 11:00	07/30/15 04:50	1
2-Fluorophenol	64		25 - 110	07/24/15 11:00	07/30/15 04:50	1
Nitrobenzene-d5	64		25 - 115	07/24/15 11:00	07/30/15 04:50	1
Phenol-d5	65		31 - 110	07/24/15 11:00	07/30/15 04:50	1
Terphenyl-d14	83		36 - 134	07/24/15 11:00	07/30/15 04:50	1
2,4,6-Tribromophenol	43		35 - 137	07/24/15 11:00	07/30/15 04:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Antimony	0.25	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Arsenic	7.1		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Barium	51		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Chromium	17		0.57	0.098	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Cobalt	9.8		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Copper	22		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Iron	18000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Lead	11		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 04:56	1
Magnesium	33000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Calcium	87000	B	110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 08:55	10
Manganese	650		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Nickel	32		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:56	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 04:56	1
Vanadium	20		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Zinc	37	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Potassium	3500		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1
Sodium	1000		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0061	mg/Kg	☼	07/29/15 15:30	07/30/15 11:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (0-5)

Lab Sample ID: 500-98885-14

Date Collected: 07/21/15 10:25

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/27/15 20:30	07/27/15 22:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Barium	0.47	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:23	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:23	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:23	1
Calcium	570		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:24	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Iron	0.25		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:23	1
Magnesium	30		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:23	1
Manganese	0.58		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Potassium	5.6		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:24	1
Selenium	0.023	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:23	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:23	1
Zinc	0.17	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	43		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:57	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Barium	0.44	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 02:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 02:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 02:57	1
Calcium	63		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:57	1
Chromium	0.068		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Cobalt	0.016	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Copper	0.083		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Iron	60		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 02:57	1
Lead	0.033		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 02:57	1
Magnesium	23		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:57	1
Manganese	0.30		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Nickel	0.069		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Potassium	18		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 02:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 02:57	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Vanadium	0.076		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 02:57	1
Zinc	0.35		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 02:57	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		07/29/15 09:00	07/31/15 14:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 14:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU	-		07/24/15 09:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/22/15 15:35	07/24/15 17:06	1
Dibromofluoromethane	108		75 - 120	07/22/15 15:35	07/24/15 17:06	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/22/15 15:35	07/24/15 17:06	1
Toluene-d8 (Surr)	95		75 - 122	07/22/15 15:35	07/24/15 17:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Benzo[g,h,i]perylene	0.014	J	0.038	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
Pyrene	0.016	J	0.038	0.0076	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 11:00	07/30/15 05:14	1
2-Fluorophenol	67		25 - 110	07/24/15 11:00	07/30/15 05:14	1
Nitrobenzene-d5	71		25 - 115	07/24/15 11:00	07/30/15 05:14	1
Phenol-d5	76		31 - 110	07/24/15 11:00	07/30/15 05:14	1
Terphenyl-d14	92		36 - 134	07/24/15 11:00	07/30/15 05:14	1
2,4,6-Tribromophenol	61		35 - 137	07/24/15 11:00	07/30/15 05:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9200		12	2.9	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Antimony	<1.2		1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Arsenic	7.3		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Barium	54		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Beryllium	0.58		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Chromium	16		0.58	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Cobalt	20		0.29	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Copper	22		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Iron	17000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Lead	13		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 05:01	1
Magnesium	28000	B	5.8	2.4	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Calcium	97000	B	120	37	mg/Kg	☼	07/24/15 10:00	07/27/15 09:01	10
Manganese	660		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Nickel	30		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Selenium	0.49	J	0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 05:01	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 05:01	1
Vanadium	20		0.29	0.085	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Zinc	36	B	1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Potassium	3400		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1
Sodium	420		58	7.7	mg/Kg	☼	07/24/15 10:00	07/25/15 11:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020	0.0068	mg/Kg	☼	07/29/15 15:30	07/30/15 12:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B18 (5-11)

Lab Sample ID: 500-98885-15

Date Collected: 07/21/15 10:35

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 85.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	07/27/15 20:30	07/27/15 22:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.99		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:28	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Barium	0.37	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:28	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:28	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:28	1
Calcium	600		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:28	1
Magnesium	53		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:28	1
Manganese	1.1		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Potassium	3.4		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:33	1
Selenium	0.023	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:28	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:28	1
Zinc	0.14	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	39		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:20	1
Arsenic	0.022	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Barium	0.46	J	0.50	0.050	mg/L		07/27/15 09:30	07/28/15 03:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 03:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 03:20	1
Calcium	61		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:20	1
Chromium	0.063		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Cobalt	0.012	J	0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Copper	0.077		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Iron	53		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:20	1
Lead	0.030		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 03:20	1
Magnesium	29		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:20	1
Manganese	0.32		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Nickel	0.061		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Potassium	16		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 03:20	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Vanadium	0.066		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:20	1
Zinc	0.39		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 03:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/29/15 09:00	07/31/15 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 15:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:24	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 11:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		07/24/15 09:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0033	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	07/22/15 15:35	07/24/15 17:30	1
Dibromofluoromethane	106		75 - 120	07/22/15 15:35	07/24/15 17:30	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/22/15 15:35	07/24/15 17:30	1
Toluene-d8 (Surr)	97		75 - 122	07/22/15 15:35	07/24/15 17:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	07/24/15 11:00	07/30/15 05:37	1
2-Fluorophenol	68		25 - 110	07/24/15 11:00	07/30/15 05:37	1
Nitrobenzene-d5	74		25 - 115	07/24/15 11:00	07/30/15 05:37	1
Phenol-d5	75		31 - 110	07/24/15 11:00	07/30/15 05:37	1
Terphenyl-d14	80		36 - 134	07/24/15 11:00	07/30/15 05:37	1
2,4,6-Tribromophenol	48		35 - 137	07/24/15 11:00	07/30/15 05:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Antimony	<1.1		1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Arsenic	4.8		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Barium	31		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Beryllium	0.57		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Chromium	16		0.56	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Cobalt	4.7		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Copper	20		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Iron	16000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Lead	12		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 05:06	1
Magnesium	31000	B	5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Calcium	78000	B	110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 09:08	10
Manganese	380		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Nickel	19		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Selenium	0.36	J	0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 05:06	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 05:06	1
Vanadium	19		0.28	0.082	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Zinc	37	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Potassium	3400		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1
Sodium	420		56	7.4	mg/Kg	☼	07/24/15 10:00	07/25/15 11:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0060	mg/Kg	☼	07/29/15 15:30	07/30/15 12:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (0-5)

Lab Sample ID: 500-98885-16

Date Collected: 07/21/15 09:50

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 86.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/27/15 20:30	07/27/15 22:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:33	1
Arsenic	<0.050		0.050	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Barium	0.36	J	0.50	0.050	mg/L		07/29/15 09:00	07/29/15 21:33	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		07/29/15 09:00	07/29/15 21:33	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/29/15 09:00	07/29/15 21:33	1
Calcium	540		2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Cobalt	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Copper	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Iron	<0.20		0.20	0.20	mg/L		07/29/15 09:00	07/29/15 21:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/29/15 09:00	07/29/15 21:33	1
Magnesium	45		2.5	0.50	mg/L		07/29/15 09:00	07/29/15 21:33	1
Manganese	0.75		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Potassium	2.4	J	2.5	0.50	mg/L		07/29/15 09:00	07/30/15 17:39	1
Selenium	0.021	J B	0.050	0.020	mg/L		07/29/15 09:00	07/29/15 21:33	1
Silver	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Vanadium	<0.025		0.025	0.010	mg/L		07/29/15 09:00	07/29/15 21:33	1
Zinc	0.22	B	0.10	0.020	mg/L		07/29/15 09:00	07/29/15 21:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:26	1
Arsenic	0.043	J	0.050	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Barium	0.52		0.50	0.050	mg/L		07/27/15 09:30	07/28/15 03:26	1
Beryllium	0.0043		0.0040	0.0040	mg/L		07/27/15 09:30	07/28/15 03:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/27/15 09:30	07/28/15 03:26	1
Calcium	43		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:26	1
Chromium	0.093		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Cobalt	0.030		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Copper	0.14		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Iron	94		0.20	0.20	mg/L		07/27/15 09:30	07/28/15 03:26	1
Lead	0.043		0.0075	0.0075	mg/L		07/27/15 09:30	07/28/15 03:26	1
Magnesium	31		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:26	1
Manganese	0.39		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Nickel	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Potassium	21		2.5	0.50	mg/L		07/27/15 09:30	07/28/15 03:26	1
Selenium	<0.050		0.050	0.020	mg/L		07/27/15 09:30	07/28/15 03:26	1
Silver	<0.025		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Vanadium	0.11		0.025	0.010	mg/L		07/27/15 09:30	07/28/15 03:26	1
Zinc	0.48		0.10	0.020	mg/L		07/27/15 09:30	07/28/15 03:26	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		07/29/15 09:00	07/31/15 15:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/15 09:00	07/31/15 15:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/27/15 09:30	07/31/15 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0024		0.0020	0.0020	mg/L	-	07/27/15 09:30	07/31/15 13:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 11:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/29/15 17:50	07/30/15 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.78		0.200	0.200	SU	-		07/24/15 09:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0037	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Benzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00092	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	07/22/15 15:35	07/24/15 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122	07/22/15 15:35	07/24/15 17:54	1
Dibromofluoromethane	103		75 - 120	07/22/15 15:35	07/24/15 17:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/22/15 15:35	07/24/15 17:54	1
Toluene-d8 (Surr)	95		75 - 122	07/22/15 15:35	07/24/15 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 11:00	07/30/15 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		25 - 119	07/24/15 11:00	07/30/15 06:01	1
2-Fluorophenol	49		25 - 110	07/24/15 11:00	07/30/15 06:01	1
Nitrobenzene-d5	56		25 - 115	07/24/15 11:00	07/30/15 06:01	1
Phenol-d5	58		31 - 110	07/24/15 11:00	07/30/15 06:01	1
Terphenyl-d14	66		36 - 134	07/24/15 11:00	07/30/15 06:01	1
2,4,6-Tribromophenol	37		35 - 137	07/24/15 11:00	07/30/15 06:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Arsenic	5.8		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Barium	32		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Beryllium	0.58		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Chromium	15		0.57	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Cobalt	7.6		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Copper	20		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Iron	16000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Lead	12		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 05:12	1
Magnesium	36000	B	5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Calcium	110000	B	110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 09:15	10
Manganese	390		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Nickel	19		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Selenium	0.55	J	0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 05:12	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 05:12	1
Vanadium	19		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Zinc	36	B	1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Potassium	3300		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1
Sodium	520		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 11:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0060	mg/Kg	☼	07/29/15 15:30	07/30/15 12:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-B24 (5-11)

Lab Sample ID: 500-98885-17

Date Collected: 07/21/15 10:00

Matrix: Solid

Date Received: 07/22/15 12:45

Percent Solids: 84.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/28/15 19:55	07/28/15 21:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-G02

Lab Sample ID: 500-98885-18

Date Collected: 07/21/15 15:45

Matrix: Water

Date Received: 07/22/15 12:45

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0013	mg/L			07/29/15 00:24	1
Benzene	<0.00050		0.00050	0.000074	mg/L			07/29/15 00:24	1
Bromodichloromethane	<0.0010		0.0010	0.00017	mg/L			07/29/15 00:24	1
Bromoform	<0.0010		0.0010	0.00028	mg/L			07/29/15 00:24	1
Bromomethane	<0.0010		0.0010	0.00031	mg/L			07/29/15 00:24	1
Carbon disulfide	<0.0050		0.0050	0.00043	mg/L			07/29/15 00:24	1
Carbon tetrachloride	<0.0010		0.0010	0.00026	mg/L			07/29/15 00:24	1
Chlorobenzene	<0.0010		0.0010	0.00014	mg/L			07/29/15 00:24	1
Chloroethane	<0.0010		0.0010	0.00034	mg/L			07/29/15 00:24	1
Chloroform	<0.0010		0.0010	0.00020	mg/L			07/29/15 00:24	1
Chloromethane	<0.0010		0.0010	0.00018	mg/L			07/29/15 00:24	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00012	mg/L			07/29/15 00:24	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00018	mg/L			07/29/15 00:24	1
Dibromochloromethane	<0.0010		0.0010	0.00032	mg/L			07/29/15 00:24	1
1,1-Dichloroethane	<0.0010		0.0010	0.00019	mg/L			07/29/15 00:24	1
1,2-Dichloroethane	<0.0010		0.0010	0.00028	mg/L			07/29/15 00:24	1
1,1-Dichloroethene	<0.0010		0.0010	0.00031	mg/L			07/29/15 00:24	1
1,2-Dichloropropane	<0.0010		0.0010	0.00020	mg/L			07/29/15 00:24	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00018	mg/L			07/29/15 00:24	1
Ethylbenzene	<0.00050		0.00050	0.00013	mg/L			07/29/15 00:24	1
2-Hexanone	<0.0050		0.0050	0.00056	mg/L			07/29/15 00:24	1
Methylene Chloride	<0.0050		0.0050	0.00068	mg/L			07/29/15 00:24	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0015	mg/L			07/29/15 00:24	1
methyl isobutyl ketone	<0.0050		0.0050	0.00033	mg/L			07/29/15 00:24	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00024	mg/L			07/29/15 00:24	1
Styrene	<0.0010		0.0010	0.00010	mg/L			07/29/15 00:24	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00023	mg/L			07/29/15 00:24	1
Tetrachloroethene	<0.0010		0.0010	0.00017	mg/L			07/29/15 00:24	1
Toluene	<0.00050		0.00050	0.00011	mg/L			07/29/15 00:24	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00025	mg/L			07/29/15 00:24	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00021	mg/L			07/29/15 00:24	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00020	mg/L			07/29/15 00:24	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00028	mg/L			07/29/15 00:24	1
Trichloroethene	<0.00050		0.00050	0.00019	mg/L			07/29/15 00:24	1
Vinyl acetate	<0.0020		0.0020	0.00033	mg/L			07/29/15 00:24	1
Vinyl chloride	<0.00050		0.00050	0.00010	mg/L			07/29/15 00:24	1
Xylenes, Total	<0.0010		0.0010	0.000068	mg/L			07/29/15 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120		07/29/15 00:24	1
Dibromofluoromethane	89		75 - 120		07/29/15 00:24	1
1,2-Dichloroethane-d4 (Surr)	89		75 - 125		07/29/15 00:24	1
Toluene-d8 (Surr)	113		75 - 120		07/29/15 00:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00074		0.00074	0.00023	mg/L		07/22/15 15:48	07/27/15 19:57	1
Acenaphthylene	<0.00074		0.00074	0.00020	mg/L		07/22/15 15:48	07/27/15 19:57	1
Anthracene	<0.00074		0.00074	0.00025	mg/L		07/22/15 15:48	07/27/15 19:57	1
Benzo[a]anthracene	0.00019		0.00012	0.000042	mg/L		07/22/15 15:48	07/27/15 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-G02

Lab Sample ID: 500-98885-18

Date Collected: 07/21/15 15:45

Matrix: Water

Date Received: 07/22/15 12:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.00015		0.00015	0.000073	mg/L		07/22/15 15:48	07/27/15 19:57	1
Benzo[b]fluoranthene	0.00020		0.00015	0.000060	mg/L		07/22/15 15:48	07/27/15 19:57	1
Benzo[g,h,i]perylene	<0.00074		0.00074	0.00028	mg/L		07/22/15 15:48	07/27/15 19:57	1
Benzo[k]fluoranthene	0.000098	J	0.00015	0.000047	mg/L		07/22/15 15:48	07/27/15 19:57	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00021	mg/L		07/22/15 15:48	07/27/15 19:57	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00022	mg/L		07/22/15 15:48	07/27/15 19:57	1
Bis(2-ethylhexyl) phthalate	<0.0074		0.0074	0.0013	mg/L		07/22/15 15:48	07/27/15 19:57	1
4-Bromophenyl phenyl ether	<0.0037		0.0037	0.00040	mg/L		07/22/15 15:48	07/27/15 19:57	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00036	mg/L		07/22/15 15:48	07/27/15 19:57	1
Carbazole	<0.0037		0.0037	0.00026	mg/L		07/22/15 15:48	07/27/15 19:57	1
4-Chloroaniline	<0.0074		0.0074	0.0015	mg/L		07/22/15 15:48	07/27/15 19:57	1
4-Chloro-3-methylphenol	<0.0074		0.0074	0.0017	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Chloronaphthalene	<0.0015		0.0015	0.00017	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Chlorophenol	<0.0037		0.0037	0.00041	mg/L		07/22/15 15:48	07/27/15 19:57	1
4-Chlorophenyl phenyl ether	<0.0037		0.0037	0.00047	mg/L		07/22/15 15:48	07/27/15 19:57	1
Chrysene	0.00018	J	0.00037	0.000050	mg/L		07/22/15 15:48	07/27/15 19:57	1
Dibenz(a,h)anthracene	<0.00022		0.00022	0.000038	mg/L		07/22/15 15:48	07/27/15 19:57	1
Dibenzofuran	<0.0015		0.0015	0.00019	mg/L		07/22/15 15:48	07/27/15 19:57	1
1,2-Dichlorobenzene	<0.0015		0.0015	0.00018	mg/L		07/22/15 15:48	07/27/15 19:57	1
1,3-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/22/15 15:48	07/27/15 19:57	1
1,4-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		07/22/15 15:48	07/27/15 19:57	1
3,3'-Dichlorobenzidine	<0.0037		0.0037	0.0013	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4-Dichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/22/15 15:48	07/27/15 19:57	1
Diethyl phthalate	0.00073	J	0.0015	0.00027	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4-Dimethylphenol	<0.0074		0.0074	0.0013	mg/L		07/22/15 15:48	07/27/15 19:57	1
Dimethyl phthalate	<0.0015		0.0015	0.00023	mg/L		07/22/15 15:48	07/27/15 19:57	1
Di-n-butyl phthalate	0.00059	J	0.0037	0.00054	mg/L		07/22/15 15:48	07/27/15 19:57	1
4,6-Dinitro-2-methylphenol	<0.015		0.015	0.0044	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4-Dinitrophenol	<0.015		0.015	0.0064	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4-Dinitrotoluene	<0.00074		0.00074	0.00018	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,6-Dinitrotoluene	<0.00037		0.00037	0.000055	mg/L		07/22/15 15:48	07/27/15 19:57	1
Di-n-octyl phthalate	<0.0074		0.0074	0.00078	mg/L		07/22/15 15:48	07/27/15 19:57	1
Fluoranthene	0.00036	J	0.00074	0.00034	mg/L		07/22/15 15:48	07/27/15 19:57	1
Fluorene	<0.00074		0.00074	0.00018	mg/L		07/22/15 15:48	07/27/15 19:57	1
Hexachlorobenzene	<0.00037		0.00037	0.000059	mg/L		07/22/15 15:48	07/27/15 19:57	1
Hexachlorobutadiene	<0.0037		0.0037	0.00038	mg/L		07/22/15 15:48	07/27/15 19:57	1
Hexachlorocyclopentadiene	<0.015		0.015	0.0047	mg/L		07/22/15 15:48	07/27/15 19:57	1
Hexachloroethane	<0.0037		0.0037	0.00044	mg/L		07/22/15 15:48	07/27/15 19:57	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015	0.000055	mg/L		07/22/15 15:48	07/27/15 19:57	1
Isophorone	<0.0015		0.0015	0.00028	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Methylnaphthalene	<0.00037		0.00037	0.000048	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Methylphenol	<0.0015		0.0015	0.00023	mg/L		07/22/15 15:48	07/27/15 19:57	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00033	mg/L		07/22/15 15:48	07/27/15 19:57	1
Naphthalene	<0.00074		0.00074	0.00023	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Nitroaniline	<0.0037		0.0037	0.00095	mg/L		07/22/15 15:48	07/27/15 19:57	1
3-Nitroaniline	<0.0074		0.0074	0.0013	mg/L		07/22/15 15:48	07/27/15 19:57	1
4-Nitroaniline	<0.0074		0.0074	0.0012	mg/L		07/22/15 15:48	07/27/15 19:57	1
Nitrobenzene	<0.00074		0.00074	0.00033	mg/L		07/22/15 15:48	07/27/15 19:57	1
2-Nitrophenol	<0.0074		0.0074	0.0019	mg/L		07/22/15 15:48	07/27/15 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-G02

Lab Sample ID: 500-98885-18

Date Collected: 07/21/15 15:45

Matrix: Water

Date Received: 07/22/15 12:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0055	mg/L		07/22/15 15:48	07/27/15 19:57	1
N-Nitrosodi-n-propylamine	<0.00037		0.00037	0.00011	mg/L		07/22/15 15:48	07/27/15 19:57	1
N-Nitrosodiphenylamine	<0.00074		0.00074	0.00027	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00028	mg/L		07/22/15 15:48	07/27/15 19:57	1
Pentachlorophenol	<0.015		0.015	0.0029	mg/L		07/22/15 15:48	07/27/15 19:57	1
Phenanthrene	<0.00074		0.00074	0.00022	mg/L		07/22/15 15:48	07/27/15 19:57	1
Phenol	<0.0037		0.0037	0.00050	mg/L		07/22/15 15:48	07/27/15 19:57	1
Pyrene	<0.00074		0.00074	0.00032	mg/L		07/22/15 15:48	07/27/15 19:57	1
1,2,4-Trichlorobenzene	<0.0015		0.0015	0.00018	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4,5-Trichlorophenol	<0.0074		0.0074	0.0019	mg/L		07/22/15 15:48	07/27/15 19:57	1
2,4,6-Trichlorophenol	<0.0037		0.0037	0.00053	mg/L		07/22/15 15:48	07/27/15 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		41 - 132	07/22/15 15:48	07/27/15 19:57	1
2-Fluorophenol	77		32 - 110	07/22/15 15:48	07/27/15 19:57	1
Nitrobenzene-d5	81		47 - 134	07/22/15 15:48	07/27/15 19:57	1
Phenol-d5	64		25 - 100	07/22/15 15:48	07/27/15 19:57	1
Terphenyl-d14	94		59 - 150	07/22/15 15:48	07/27/15 19:57	1
2,4,6-Tribromophenol	120		53 - 150	07/22/15 15:48	07/27/15 19:57	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	74		0.50	0.27	mg/L		07/22/15 17:00	07/23/15 22:06	5
Antimony	<0.015		0.015	0.0051	mg/L		07/22/15 17:00	07/23/15 22:06	5
Arsenic	0.094		0.0010	0.00044	mg/L		07/22/15 17:00	07/28/15 19:13	1
Barium	0.60		0.013	0.0042	mg/L		07/22/15 17:00	07/23/15 22:06	5
Beryllium	0.0068		0.0010	0.00024	mg/L		07/22/15 17:00	07/30/15 23:15	1
Cadmium	0.0035		0.00050	0.00019	mg/L		07/22/15 17:00	07/23/15 22:02	1
Calcium	740		2.0	1.1	mg/L		07/22/15 17:00	07/28/15 19:16	10
Chromium	0.25		0.025	0.0030	mg/L		07/22/15 17:00	07/23/15 22:06	5
Cobalt	0.082		0.0050	0.00095	mg/L		07/22/15 17:00	07/23/15 22:06	5
Copper	0.41		0.0020	0.00096	mg/L		07/22/15 17:00	07/23/15 22:02	1
Iron	220		0.10	0.026	mg/L		07/22/15 17:00	07/30/15 23:15	1
Lead	0.20		0.00050	0.00014	mg/L		07/22/15 17:00	07/23/15 22:02	1
Magnesium	220		1.0	0.42	mg/L		07/22/15 17:00	07/23/15 22:06	5
Manganese	3.9		0.013	0.0050	mg/L		07/22/15 17:00	07/23/15 22:06	5
Nickel	0.26		0.010	0.0026	mg/L		07/22/15 17:00	07/23/15 22:06	5
Potassium	12		2.5	0.95	mg/L		07/22/15 17:00	07/23/15 22:06	5
Selenium	0.0066		0.0025	0.00083	mg/L		07/22/15 17:00	07/28/15 19:13	1
Silver	0.00054		0.00050	0.000080	mg/L		07/22/15 17:00	07/23/15 22:02	1
Sodium	400		1.0	0.44	mg/L		07/22/15 17:00	07/30/15 23:20	5
Thallium	0.0033		0.0020	0.00059	mg/L		07/22/15 17:00	07/23/15 22:02	1
Vanadium	0.19		0.050	0.022	mg/L		07/22/15 17:00	07/28/15 19:16	10
Zinc	0.99		0.020	0.0046	mg/L		07/22/15 17:00	07/23/15 22:02	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000061	mg/L		07/28/15 16:30	07/29/15 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Client Sample ID: 2682-4-G02

Lab Sample ID: 500-98885-18

Date Collected: 07/21/15 15:45

Matrix: Water

Date Received: 07/22/15 12:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.011		0.010	0.0021	mg/L		07/30/15 14:20	07/30/15 16:51	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98885-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534



500-98885 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 135 Ambassador Dr
Address: Naperville, IL 60540
Phone: 630-217-4263
Fax: 630-457-9489
E-Mail: matt.weiss@terracon.com

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job # 500-98885
Chain of Custody Number: _____
Page 1 of 5
Temperature °C of Cooler: 2, 7, 3, 1

Client		Client Project #		Preservative														Preservative Key		
		<u>1157102</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter																
<u>Northbrook, IL</u>																				
Project Location/State		Lab Project #		Parameter																
<u>Northbrook, IL</u>																				
Sampler		Lab PM		Parameter																
<u>Chond Kelly</u>																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 Metals*	TCLP 24 Metals*	SPLP 24 Metals*	PH						Comments		
			Date	Time																
1		2682-4-B04 (0-5)	7/21/15	2:20	6	S	✓	✓	✓	✓	✓	✓								
2		2682-4-B04 (5-11)	7/21/15	2:25	6	S	✓	✓	✓	✓	✓	✓								
3		2682-4-B06 (0-5)	7/21/15	1:50	6	S	✓	✓	✓	✓	✓	✓								
4		2682-4-B06 (5-11)	7/21/15	1:55	6	S	✓	✓	✓	✓	✓	✓								
5		2682-4-B08 (0-5)	7/21/15	1:20	6	S	✓	✓	✓	✓	✓	✓								
6		2682-4-B08 (5-11)	7/21/15	1:25	6	S	✓	✓	✓	✓	✓	✓								
7		2682-4-B10 (0-5)	7/21/15	12:50	6	S	✓	✓	✓	✓	✓	✓								
8		2682-4-B10 (5-11)	7/21/15	1:00	6	S	✓	✓	✓	✓	✓	✓								
9		2682-4-B12 (0-5)	7/21/15	11:50	6	S	✓	✓	✓	✓	✓	✓								
10		2682-4-B12 (5-11)	7/21/15	12:00	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company <u>Terracon</u> Date <u>7/21/15</u> Time <u>11:10</u>	Received By <u>[Signature]</u> Company <u>JA</u> Date <u>7/21/15</u> Time <u>11:10</u>
Relinquished By <u>[Signature]</u> Company <u>JA</u> Date <u>7/22/15</u> Time <u>12:45</u>	Received By <u>[Signature]</u> Company <u>JA-CHE</u> Date <u>7/22/15</u> Time <u>12:45</u>
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____

Lab Courier: JA
Shipped: _____
Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

IL TACO
* Total 24 Inorganics
* Total 24 TCLP 24 Inorganics
* SPLP 24 Inorganics

Lab Comments:

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 135 Ambassador Dr
Naperville, IL 60540
 Phone: 630-712-4263
 Fax: 630-357-9489
 E-Mail: matt.weiss@terracon.com

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-98885
 Chain of Custody Number: _____
 Page 2 of 5
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM										1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Metals*	TCLP 24 Metals*	SPLP 24 Metals*	PH	Comments						
			Date	Time															
11		2682-4-B14A (0-4)	7/21/15	11:25	6	S	✓	✓	✓	✓	✓	✓							
12		2682-4-B16 (0-5)	7/21/15	10:55	6	S	✓	✓	✓	✓	✓	✓							
13		2682-4-B16 (5-11)	7/21/15	11:05	6	S	✓	✓	✓	✓	✓	✓							
14		2682-4-B18 (0-5)	7/21/15	10:25	6	S	✓	✓	✓	✓	✓	✓							
15		2682-4-B18 (5-11)	7/21/15	10:35	6	S	✓	✓	✓	✓	✓	✓							
16		2682-4-B24 (0-5)	7/21/15	9:50	6	S	✓	✓	✓	✓	✓	✓							
17		2682-4-B24 (5-11)	7/21/15	10:00	6	S	✓	✓	✓	✓	✓	✓							

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>1110</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/22/15</u> Time: <u>1110</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>1045</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/22/15</u> Time: <u>1245</u>

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: IL TALO
* Total 24 Inorganics
* TCLP 24 Inorganics
* SPLP 24 Inorganics

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98885-1

Login Number: 98885
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7,3.1
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.	False	
Samples are received within Holding Time.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation
LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 2760 - Shermer Road from IL 43 to IL 68 Office Phone Number, if available:

Physical Site Location (address, including number and street):

Shermer Road ROW from Lee Rd to 400 ft east of IL Rte 68 IDOT STA 535+30 to 539+00 (ISGS Site 2682-5)

City: Northbrook State: IL Zip Code: 60062

County: Cook Township: Northfield

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.13313 Longitude: -87.82094
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: BOW: BOA:

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 West Center Court

PO Box:

PO Box:

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 2760 – Shermer Road from IL 43 to IL 68

Latitude: 42.13313 Longitude: -87.82094

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from borings B01 through B05 were sampled adjacent to ISGS Site No 2682-5. See Exhibits 4 through 5A and Table 8 of the Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100. Subpart F and that the soil pH is within the range of 6.25 to 9.0 including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report Nos J98820-2 and J98820-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 4, 2015. CCDD/USFO facility in MSA County. Only borings listed above are certified.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

i. Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

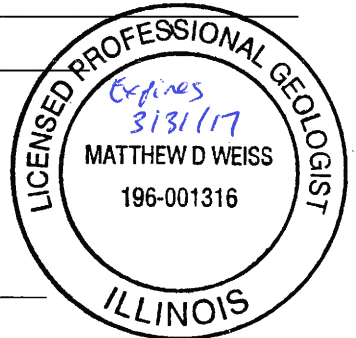
Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

[Signature]

9/4/15

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-5)
Northbrook, IL
Terracon Project No. 11157102
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-5-B01 (0-1.5)	2682-5-B01 Dup (0-1.5)	2682-5-B02 (0-4)	2682-5-B03 (0-1.5)	2682-5-B04 (0-1.5)
				CCDD	Sample Depth (feet)	(0-1.5)	(0-1.5)	(0-4)	(0-1.5)	(0-1.5)
		mg/kg	Date Collected	7/20/15	7/20/15	7/20/15	7/20/15	7/20/15		
		pH 6.25-9.0								
Chicago	MSAs									
Volatile Organic Analytical Parameters										
Acetone	mg/kg	---	---	25		<0.0044	0.0079	<0.0049	0.016	<0.0056
Semivolatile Organic Analytical Parameters										
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.037	<0.038	0.0089	0.019
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.037	<0.038	<0.037	0.024
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	<0.037	<0.038	<0.037	0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	<0.037	<0.038	<0.037	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.037	<0.038	<0.037	0.017
Chrysene	mg/kg	1.2	2.7	88		<0.038	<0.037	<0.038	0.011	0.025
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.037	<0.038	<0.037	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	<0.037	<0.038	0.016	0.043
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.037	<0.038	<0.037	<0.039
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	<0.037	<0.038	<0.037	0.016
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.037	<0.038	<0.037	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	<0.037	<0.038	0.0084	0.019
Pyrene	mg/kg	1.9	3.0	2300		<0.038	<0.037	<0.038	0.015	0.036
Inorganic Analytical Parameters										
Arsenic	mg/kg	13	13	11.3		5.3	5.4	6.1	7.3	5.7
Barium	mg/kg	110	110	1500		33	39	33	48	64
Cadmium	mg/kg	0.6	0.6	5.2		0.27	0.31	0.26	0.26	0.29
Chromium, total	mg/kg	16.2	16.2	21		15	13	15	17	16
Lead	mg/kg	36	36	107		8.9	12	10	13	15
Mercury	mg/kg	0.06	0.06	0.1		0.026	0.025	0.018	0.014	0.044
Selenium	mg/kg	0.48	0.48	1.3		0.58	0.58	0.51	0.58	0.88
Silver	mg/kg	0.55	0.55	4.4		<0.29	<0.29	<0.28	<0.28	<0.30
Antimony	mg/kg	4.0	4.0	5		0.34	0.33	0.32	<1.1	<1.2
Beryllium	mg/kg	0.59	0.59	22		0.69	0.6	0.7	0.8	0.66
Calcium	mg/kg	9,300	9,300	---		83000	150000	86000	30000	2900
Cobalt	mg/kg	8.9	8.9	20		7.6	8.2	10	13	10
Copper	mg/kg	19.6	19.6	2900		18	20	22	27	16
Cyanide	mg/kg	0.51	0.51	---		<0.57	<0.57	<0.58	<0.52	<0.59
Iron	mg/kg	15,900	15,900	15000		17000	16000	18000	22000	18000
Magnesium	mg/kg	4,820	4,820	325000		27000	27000	28000	20000	3100
Manganese	mg/kg	636	636	630		340	370	510	530	520
Nickel	mg/kg	18	18	100		23	21	26	36	19
Potassium	mg/kg	1,268	1,268	---		2600	2100	2200	2200	1100
Sodium	mg/kg	130	130	---		170	170	930	2200	270
Thallium	mg/kg	0.32	0.32	2.6		0.95	<5.7	1.1	1.4	1.1
Vanadium	mg/kg	25.2	25.2	550		19	18	20	23	28
Zinc	mg/kg	95	95	5100		47	41	49	62	54
pH			6.25	9		8.17	8.33	8.9	8.45	7.91

Comparison of Detected Constituents to MAC Values-IDOT No. PTB 174-009; Work Order: 02A
Preliminary Site Investigation
FAU 2760 - Shermer Road from IL 43 to IL 68 (PESA #2682-5)
Northbrook, IL
Terracon Project No. 11157102
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2682-5-B01 (0-1.5)	2682-5-B01 Dup (0-1.5)	2682-5-B02 (0-4)	2682-5-B03 (0-1.5)	2682-5-B04 (0-1.5)
				CCDD	Sample Depth (feet)	(0-1.5)	(0-1.5)	(0-4)	(0-1.5)	(0-1.5)
		mg/kg	Date Collected	7/20/15	7/20/15	7/20/15	7/20/15	7/20/15		
		pH 6.25-9.0								
Chicago	MSAs									
Inorganic Analytical Parameters (SPLP)										
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	<0.050	0.025	0.059	<0.050
Barium,SPLP	mg/L	---	---	---		0.14	0.17	0.31	0.91	0.1
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	0.0044	0.011	<0.0040
Cadmium,SPLP	mg/L	---	---	---		0.0022	0.0026	0.0034	0.0047	<0.0050
Calcium,SPLP	mg/L	---	---	---		35	45	40	35	12
Chromium,SPLP	mg/L	---	---	---		0.027	0.035	0.11	0.24	0.011
Cobalt,SPLP	mg/L	---	---	---		<0.025	<0.025	0.024	0.1	<0.025
Copper,SPLP	mg/L	---	---	---		0.04	0.05	0.15	0.29	0.021
Iron,SPLP	mg/L	---	---	---		18	28	110	250	6.6
Lead,SPLP	mg/L	---	---	---		0.016	0.02	0.046	0.19	<0.0075
Magnesium,SPLP	mg/L	---	---	---		15	20	35	49	6.4
Manganese,SPLP	mg/L	---	---	---		0.18	0.15	0.6	1.6	0.038
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.024	0.032	0.13	0.41	<0.025
Potassium,SPLP	mg/L	---	---	---		8.6	12	24	36	2.5
Selenium,SPLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050
Silver,SPLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Sodium,SPLP	mg/L	---	---	---		---	---	---	---	---
Thallium,SPLP	mg/L	---	---	---		<0.0020	<0.0020	0.0025	0.005	<0.0020
Vanadium,SPLP	mg/L	---	---	---		0.035	0.045	0.12	0.27	0.016
Zinc,SPLP	mg/L	---	---	---		0.14	0.12	0.32	0.75	0.11
Cyanide,SPLP	mg/L	---	---	---		---	---	---	---	---
Inorganic Analytical Parameters (TCLP)										
Arsenic,TCLP	mg/L	---	---	---		0.011	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.38	0.45	0.25	0.31	0.2
Cadmium,TCLP	mg/L	---	---	---		0.0023	0.0022	0.0029	0.0027	0.0024
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		520	550	590	270	88
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.016	0.016	<0.025	0.018	0.013
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		42	43	31	87	37
Manganese,TCLP	mg/L	---	---	---		0.13	0.23	1	1.1	0.18
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.6	1.8	1.3	1.7	1.4
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.038	0.029	0.021	0.037	0.13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-98820-1
Client Project/Site: IDOT - Northbrook - WO 002

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
7/31/2015 2:51:10 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	30
Client Sample Results	31
Definitions	169
Chain of Custody	170
Receipt Checklists	173

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Job ID: 500-98820-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98820-1

Receipt

The samples were received on 7/21/2015 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 2.9° C and 3.3° C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: 2-Fluorophenol and Phenol-d5 surrogate recoveries for the following sample were outside the upper control limit: 2682-4-B20 (5-11) (500-98820-5). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: 2682-4-B23 (5-11) (500-98820-11). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2682-4-B20 (0-5) (500-98820-4) and 2682-4-B27 (0-5) (500-98820-13). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: 2682-4-B22 Dup (0-4) (500-98820-9). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid and one base surrogate outside acceptance limits: 2682-4-B31 (0-4) (500-98820-23). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: 2682-4-B30 (0-4) (500-98820-21), 2682-4-B30 Dup (0-4) (500-98820-22) and 2682-4-B31 (0-4) (500-98820-23). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.0091	J	0.037	0.0062	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.037	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.037	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.049		0.037	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.043		0.037	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.084		0.037	0.0069	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.0096	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.037		0.037	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.067		0.037	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	9300		11	2.7	mg/Kg	1	☼	☼	6010B	Total/NA
Antimony	0.49	J F1 B	1.1	0.23	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	5.1	F1	0.55	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	30	F2 F1	0.55	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.047	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	16	F1	0.55	0.094	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	7.1		0.27	0.062	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	18	F1	0.55	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	10	F2 F1	0.27	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	32000		5.5	2.2	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	80000		110	35	mg/Kg	10	☼	☼	6010B	Total/NA
Manganese	430	F2	0.55	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	21		0.55	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.54	J F1	0.55	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	19	F1	0.27	0.080	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	45	F1	1.1	0.35	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	3200		27	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	780	F1	55	7.2	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	290		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	64		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	120		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.067		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.76	F1	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0075		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.042		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	160		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.074		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.79		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4) (Continued)

Lab Sample ID: 500-98820-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.68	B F1	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.020		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.55		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0094	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Aluminum	7200		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.70	J B	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	720		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.80		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	420		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.26		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.018	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.071		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5) (Continued)

Lab Sample ID: 500-98820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	51		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.57	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.016	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.7		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.34		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	1.9		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.056	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	7.2		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11) (Continued)

Lab Sample ID: 500-98820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.1		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	3.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.054	J B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0047	0.0037	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.011	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.035	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.24		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.51		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	13000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.32	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	57		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J B	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.7		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.61		0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5) (Continued)

Lab Sample ID: 500-98820-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.062		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Vanadium	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.48		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	77		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.037	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0045		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	93		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.56	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.079		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0097	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9300		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.36	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.4		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11) (Continued)

Lab Sample ID: 500-98820-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.62		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	46		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.027	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.50		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	54		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.072		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	56		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.030		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.080		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.076		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Aluminum	15000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.56	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5) (Continued)

Lab Sample ID: 500-98820-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	80		0.61	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.82		0.25	0.053	mg/Kg	1		☼	6010B	Total/NA
Chromium	23		0.61	0.11	mg/Kg	1		☼	6010B	Total/NA
Cobalt	15		0.31	0.069	mg/Kg	1		☼	6010B	Total/NA
Copper	19		0.61	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	24000		12	4.7	mg/Kg	1		☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	4600		6.1	2.5	mg/Kg	1		☼	6010B	Total/NA
Calcium	2500		12	3.9	mg/Kg	1		☼	6010B	Total/NA
Manganese	700		0.61	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	25		0.61	0.17	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.70		0.61	0.30	mg/Kg	1		☼	6010B	Total/NA
Vanadium	29		0.31	0.090	mg/Kg	1		☼	6010B	Total/NA
Zinc	56		1.2	0.39	mg/Kg	1		☼	6010B	Total/NA
Potassium	2400		31	5.0	mg/Kg	1		☼	6010B	Total/NA
Sodium	930		61	8.1	mg/Kg	1		☼	6010B	Total/NA
Aluminum	2.0		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	90		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.78		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.064		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.97		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0095		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.047		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.088		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	44		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.85	B	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.048		0.018	0.0064	mg/Kg	1		☼	7471B	Total/NA
pH	8.48		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11) (Continued)

Lab Sample ID: 500-98820-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9400		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.48	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.1		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	700		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	39		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	4.6		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	1.3		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	9.5		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.1		2.5	0.50	mg/L	1		6010B	SPLP East
Zinc	0.35	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.82		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.025	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4) (Continued)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	1	*	*	8270D	Total/NA
Benzo[k]fluoranthene	0.064		0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Chrysene	0.17		0.038	0.011	mg/Kg	1	*	*	8270D	Total/NA
Fluoranthene	0.25		0.038	0.0072	mg/Kg	1	*	*	8270D	Total/NA
Fluorene	0.0082	J	0.038	0.0054	mg/Kg	1	*	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.010	mg/Kg	1	*	*	8270D	Total/NA
Phenanthrene	0.087		0.038	0.0054	mg/Kg	1	*	*	8270D	Total/NA
Pyrene	0.28		0.038	0.0077	mg/Kg	1	*	*	8270D	Total/NA
Aluminum	8500		12	2.9	mg/Kg	1	*	*	6010B	Total/NA
Antimony	0.44	J B	1.2	0.24	mg/Kg	1	*	*	6010B	Total/NA
Arsenic	5.9		0.59	0.27	mg/Kg	1	*	*	6010B	Total/NA
Barium	34		0.59	0.11	mg/Kg	1	*	*	6010B	Total/NA
Beryllium	0.55		0.24	0.051	mg/Kg	1	*	*	6010B	Total/NA
Cadmium	0.051	J	0.12	0.034	mg/Kg	1	*	*	6010B	Total/NA
Chromium	15		0.59	0.10	mg/Kg	1	*	*	6010B	Total/NA
Cobalt	9.6		0.30	0.067	mg/Kg	1	*	*	6010B	Total/NA
Copper	20		0.59	0.13	mg/Kg	1	*	*	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	*	*	6010B	Total/NA
Lead	20		0.30	0.15	mg/Kg	1	*	*	6010B	Total/NA
Magnesium	31000		5.9	2.4	mg/Kg	1	*	*	6010B	Total/NA
Calcium	82000		120	38	mg/Kg	10	*	*	6010B	Total/NA
Manganese	520		0.59	0.12	mg/Kg	1	*	*	6010B	Total/NA
Nickel	22		0.59	0.16	mg/Kg	1	*	*	6010B	Total/NA
Selenium	0.61		0.59	0.29	mg/Kg	1	*	*	6010B	Total/NA
Vanadium	18		0.30	0.086	mg/Kg	1	*	*	6010B	Total/NA
Zinc	51		1.2	0.37	mg/Kg	1	*	*	6010B	Total/NA
Potassium	3000		30	4.8	mg/Kg	1	*	*	6010B	Total/NA
Sodium	690		59	7.8	mg/Kg	1	*	*	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.40	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.27		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.13		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	92		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.057		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.63		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0059		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	53		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.20		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	36		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.76		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4) (Continued)

Lab Sample ID: 500-98820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0020		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0090	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.060		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.062		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.073		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.23		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9700		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.55	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.3		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.75		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.26		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	88		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4) (Continued)

Lab Sample ID: 500-98820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.052		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0058		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	66		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.099		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	41		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.67		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.67	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019	F2	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.08		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	18000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.50	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	69		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32		0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5) (Continued)

Lab Sample ID: 500-98820-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	200		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.063		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.95		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0099		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.066		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.70	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0031		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.11		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7800		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.45	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.9		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	470		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0057		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11) (Continued)

Lab Sample ID: 500-98820-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.038	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.51		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0041		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.095		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	82		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.093		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.047		0.017	0.0061	mg/Kg	1	*	7471B	Total/NA
pH	8.72		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10000		11	2.7	mg/Kg	1	*	6010B	Total/NA
Antimony	0.44	J B	1.1	0.23	mg/Kg	1	*	6010B	Total/NA
Arsenic	5.6		0.55	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	41		0.55	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	*	6010B	Total/NA
Chromium	17		0.55	0.095	mg/Kg	1	*	6010B	Total/NA
Cobalt	9.5		0.28	0.063	mg/Kg	1	*	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	*	6010B	Total/NA
Lead	8.9		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	29000		5.5	2.3	mg/Kg	1	*	6010B	Total/NA
Calcium	78000		110	36	mg/Kg	10	*	6010B	Total/NA
Manganese	480		0.55	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	23		0.55	0.15	mg/Kg	1	*	6010B	Total/NA
Selenium	0.35	J	0.55	0.27	mg/Kg	1	*	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	*	6010B	Total/NA
Zinc	38		1.1	0.35	mg/Kg	1	*	6010B	Total/NA
Potassium	3200		28	4.5	mg/Kg	1	*	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	*	6010B	Total/NA
Aluminum	1.5		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4) (Continued)

Lab Sample ID: 500-98820-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	83		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.040	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.58		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0053		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	59		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	29		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.55	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.025		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015		0.0050	0.0038	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.018	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.074		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.093		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.067		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.066		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.081		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.29		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Aluminum	17000		12	3.1	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.94		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	4.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5) (Continued)

Lab Sample ID: 500-98820-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	370		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.12	J B	0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	3500		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	16		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	200		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.088		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.3		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	44		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.77	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0043		0.0020	0.0020	mg/L	1		6020A	SPLP East
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8800		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11) (Continued)

Lab Sample ID: 500-98820-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	15		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.0		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0055		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	240		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	63		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.030	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.61		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0041		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.096		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	75		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.086		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.66	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.060		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.64	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5) (Continued)

Lab Sample ID: 500-98820-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.96		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5900		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2.7		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	84		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	180		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.074		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.93		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0096		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.081		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	45		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.50	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0037		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.034		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0098		0.0046	0.0036	mg/Kg	1	☼	8260B	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11) (Continued)

Lab Sample ID: 500-98820-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.40	J B	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.0		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.58		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Chromium	16		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	5.0		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	9.9		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	33000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	85000		110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	380		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	20		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.41	J	0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.29	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	3100		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	300		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.6		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.55		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.43		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	97		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.060		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.53		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0065		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.043		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	140		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.066		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	45		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.79		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	34		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.41	B	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0021		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.048		0.017	0.0060	mg/Kg	1		☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5) (Continued)

Lab Sample ID: 500-98820-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9800		11	2.7	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.26	J B	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	4.5		0.55	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	37		0.55	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.55	0.095	mg/Kg	1		☼	6010B	Total/NA
Cobalt	5.8		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	16		0.55	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	7.5		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	27000		5.5	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10		☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.55	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.50	J	0.55	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1		☼	6010B	Total/NA
Zinc	35		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	3300		28	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	230		55	7.3	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	600		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.32		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.016	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.44	J	0.50	0.050	mg/L	1			6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.065		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.069		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	48		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.019		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.22		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.053		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.074		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.36	B	0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.020		0.019	0.0067	mg/Kg	1		☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11) (Continued)

Lab Sample ID: 500-98820-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.0081	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Aluminum	9100		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.45	J B	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.4		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	520		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	21		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.0085		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	10		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.43	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.052		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5) (Continued)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.10		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.054		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.048		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.080		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.046		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.095		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Aluminum	15000		12	3.0	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.49	J B	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.90		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	5200		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	730		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	170		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.068		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	200		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5) (Continued)

Lab Sample ID: 500-98820-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.74	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0036		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.027		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.58		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9700		12	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.50	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.089	J B	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	3400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.2		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	81		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.039	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.67		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0054		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	61		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	95		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11) (Continued)

Lab Sample ID: 500-98820-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.037		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	43		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0034		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.056		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0061		0.0045	0.0035	mg/Kg	1	☼	8260B	Total/NA
Aluminum	11000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.46	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.8		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.84		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Aluminum	70		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.026	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0046		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	58		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4) (Continued)

Lab Sample ID: 500-98820-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	100		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.070		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.35		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.013	J	0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.80		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.7	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.43	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	8.7		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.2		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0055		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4) (Continued)

Lab Sample ID: 500-98820-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.13	B	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	44		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.078		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	55		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	15		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.075		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.18		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.018		0.016	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.75		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.053		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.088		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.063		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.39	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	91000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	440		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.96		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4) (Continued)

Lab Sample ID: 500-98820-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.9		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	62		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.023	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	52		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.083		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	78		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.092		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.098		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.33		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.58		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98820-1	2682-4-B17 (0-4)	Solid	07/20/15 09:30	07/21/15 11:00
500-98820-2	2682-4-B19 (0-5)	Solid	07/20/15 09:50	07/21/15 11:00
500-98820-3	2682-4-B19 (5-11)	Solid	07/20/15 10:00	07/21/15 11:00
500-98820-4	2682-4-B20 (0-5)	Solid	07/20/15 16:20	07/21/15 11:00
500-98820-5	2682-4-B20 (5-11)	Solid	07/20/15 16:30	07/21/15 11:00
500-98820-6	2682-4-B21 (0-5)	Solid	07/20/15 10:20	07/21/15 11:00
500-98820-7	2682-4-B21 (5-11)	Solid	07/20/15 10:25	07/21/15 11:00
500-98820-8	2682-4-B22 (0-4)	Solid	07/20/15 15:50	07/21/15 11:00
500-98820-9	2682-4-B22 Dup (0-4)	Solid	07/20/15 15:55	07/21/15 11:00
500-98820-10	2682-4-B23 (0-5)	Solid	07/20/15 10:45	07/21/15 11:00
500-98820-11	2682-4-B23 (5-11)	Solid	07/20/15 10:50	07/21/15 11:00
500-98820-12	2682-4-B25 (0-4)	Solid	07/20/15 11:10	07/21/15 11:00
500-98820-13	2682-4-B27 (0-5)	Solid	07/20/15 11:30	07/21/15 11:00
500-98820-14	2682-4-B27 (5-11)	Solid	07/20/15 11:35	07/21/15 11:00
500-98820-15	2682-4-B26 (0-5)	Solid	07/20/15 15:20	07/21/15 11:00
500-98820-16	2682-4-B26 (5-11)	Solid	07/20/15 15:30	07/21/15 11:00
500-98820-17	2682-4-B28 (0-5)	Solid	07/20/15 14:55	07/21/15 11:00
500-98820-18	2682-4-B28 (5-11)	Solid	07/20/15 15:00	07/21/15 11:00
500-98820-19	2682-4-B29 (0-5)	Solid	07/20/15 11:55	07/21/15 11:00
500-98820-20	2682-4-B29 (5-11)	Solid	07/20/15 12:05	07/21/15 11:00
500-98820-21	2682-4-B30 (0-4)	Solid	07/20/15 14:25	07/21/15 11:00
500-98820-22	2682-4-B30 Dup (0-4)	Solid	07/20/15 14:30	07/21/15 11:00
500-98820-23	2682-4-B31 (0-4)	Solid	07/20/15 12:25	07/21/15 11:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:43	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Barium	0.23	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:43	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:43	1
Calcium	290		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:43	1
Magnesium	64		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Manganese	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Potassium	2.4	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:43	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:43	1
Zinc	0.030	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:10	1
Arsenic	0.067		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Barium	0.76	F1	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:10	1
Beryllium	0.0075		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:10	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:10	1
Calcium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Chromium	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Cobalt	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Copper	0.19		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Iron	160		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:10	1
Lead	0.074		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:10	1
Magnesium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Nickel	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Potassium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Vanadium	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:10	1
Zinc	0.68	B F1	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:10	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		07/26/15 17:40	07/27/15 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0033		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.55		0.200	0.200	SU	-		07/23/15 13:11	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/22/15 18:24	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/22/15 18:24	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	07/21/15 13:45	07/22/15 18:24	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/22/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Anthracene	0.0091	J	0.037	0.0062	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[a]anthracene	0.044		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.040		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[b]fluoranthene	0.049		0.037	0.0080	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-chloroethyl)ether	<0.19	F1 F2	0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Chrysene	0.043		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,2-Dichlorobenzene	<0.19	F1	0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Dimethyl phthalate	<0.19	F1	0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Fluoranthene	0.084		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorobutadiene	<0.19	F2 F1	0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachlorocyclopentadiene	<0.75	F1	0.75	0.21	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Hexachloroethane	<0.19	F1 F2	0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.037	0.0096	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Isophorone	<0.19	F2	0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Methylphenol	<0.19	F1 F2	0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
4-Nitroaniline	<0.37	F1 F2	0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2-Nitrophenol	<0.37	F2	0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
N-Nitrosodi-n-propylamine	<0.19	F2	0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,2'-oxybis[1-chloropropane]	<0.19	F2	0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Pentachlorophenol	<0.75	F1	0.75	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Phenanthrene	0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Phenol	<0.19	F1 F2	0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
Pyrene	0.067		0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
1,2,4-Trichlorobenzene	<0.19	F1	0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 07:07	07/28/15 20:52	1
2-Fluorophenol	69		25 - 110	07/24/15 07:07	07/28/15 20:52	1
Nitrobenzene-d5	75		25 - 115	07/24/15 07:07	07/28/15 20:52	1
Phenol-d5	75		31 - 110	07/24/15 07:07	07/28/15 20:52	1
Terphenyl-d14	78		36 - 134	07/24/15 07:07	07/28/15 20:52	1
2,4,6-Tribromophenol	40		35 - 137	07/24/15 07:07	07/28/15 20:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Antimony	0.49	J F1 B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Arsenic	5.1	F1	0.55	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Barium	30	F2 F1	0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Cadmium	<0.11	F1	0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Chromium	16	F1	0.55	0.094	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Cobalt	7.1		0.27	0.062	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Copper	18	F1	0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Iron	16000		11	4.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Lead	10	F2 F1	0.27	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Magnesium	32000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Calcium	80000		110	35	mg/Kg	☼	07/23/15 10:00	07/27/15 04:25	10
Manganese	430	F2	0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Nickel	21		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Selenium	0.54	J F1	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 00:48	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Thallium	<0.55	F1	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 00:48	1
Vanadium	19	F1	0.27	0.080	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Zinc	45	F1	1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Potassium	3200		27	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1
Sodium	780	F1	55	7.2	mg/Kg	☼	07/23/15 10:00	07/25/15 05:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 11:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B17 (0-4)

Lab Sample ID: 500-98820-1

Date Collected: 07/20/15 09:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	07/27/15 14:15	07/27/15 16:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:47	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:47	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:47	1
Calcium	420		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Iron	0.26		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:47	1
Magnesium	67		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Manganese	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Potassium	0.93	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:47	1
Zinc	0.054	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:53	1
Arsenic	0.018	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:53	1
Calcium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Chromium	0.062		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Cobalt	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Copper	0.071		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Iron	51		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:53	1
Lead	0.020		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:53	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Manganese	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Nickel	0.049		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Potassium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:53	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Vanadium	0.076		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:53	1
Zinc	0.57	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:53	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		07/26/15 17:40	07/27/15 19:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU	-		07/23/15 13:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/22/15 18:48	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/22/15 18:48	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/21/15 13:45	07/22/15 18:48	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/22/15 18:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Lab Sample ID: 500-98820-2

Date Collected: 07/20/15 09:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
Pyrene	0.0094	J	0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	07/24/15 07:07	07/28/15 21:17	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/28/15 21:17	1
Nitrobenzene-d5	86		25 - 115	07/24/15 07:07	07/28/15 21:17	1
Phenol-d5	80		31 - 110	07/24/15 07:07	07/28/15 21:17	1
Terphenyl-d14	89		36 - 134	07/24/15 07:07	07/28/15 21:17	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/28/15 21:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7200		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Antimony	0.70	J B	1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Arsenic	11		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Barium	30		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Beryllium	0.47		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Cadmium	0.081	J	0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Chromium	12		0.57	0.098	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Cobalt	9.5		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Copper	23		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Iron	28000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Lead	14		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Magnesium	38000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Calcium	110000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 04:58	10
Manganese	720		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Nickel	22		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Selenium	0.80		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:12	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:12	1
Vanadium	16		0.28	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Zinc	81		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Potassium	2200		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1
Sodium	330		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0065	mg/Kg	☼	07/27/15 18:45	07/28/15 11:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (0-5)

Date Collected: 07/20/15 09:50

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-2

Matrix: Solid

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	07/27/15 14:15	07/27/15 16:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:51	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Barium	0.54		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:51	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:51	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Cobalt	0.014	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Iron	0.34		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:51	1
Magnesium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Nickel	0.026		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Potassium	4.0		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:51	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:59	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Barium	0.056	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 21:59	1
Calcium	7.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Iron	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 21:59	1
Magnesium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Manganese	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 21:59	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 21:59	1
Zinc	0.054	J B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 21:59	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		07/26/15 17:40	07/27/15 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU	-		07/23/15 13:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0044	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromodichloromethane	<0.0057		0.0057	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chlorobenzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Dibromochloromethane	<0.0057		0.0057	0.00065	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/22/15 19:12	1
Dibromofluoromethane	105		75 - 120	07/21/15 13:45	07/22/15 19:12	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/21/15 13:45	07/22/15 19:12	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/22/15 19:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[a]anthracene	0.016	J	0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	07/24/15 07:07	07/28/15 21:42	1
2-Fluorophenol	65		25 - 110	07/24/15 07:07	07/28/15 21:42	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/28/15 21:42	1
Phenol-d5	77		31 - 110	07/24/15 07:07	07/28/15 21:42	1
Terphenyl-d14	75		36 - 134	07/24/15 07:07	07/28/15 21:42	1
2,4,6-Tribromophenol	47		35 - 137	07/24/15 07:07	07/28/15 21:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Antimony	<1.1		1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Arsenic	7.5		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Barium	28		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Chromium	16		0.57	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Cobalt	11		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Copper	20		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Iron	17000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Lead	9.6		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Magnesium	34000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Calcium	90000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 05:05	10
Manganese	450		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Nickel	21		0.57	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Selenium	0.60		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:17	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:17	1
Vanadium	19		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Zinc	38		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Potassium	3500		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1
Sodium	230		57	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0059	mg/Kg	☼	07/27/15 18:45	07/28/15 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B19 (5-11)

Lab Sample ID: 500-98820-3

Date Collected: 07/20/15 10:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	07/27/15 14:15	07/27/15 16:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:56	1
Arsenic	0.61		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Barium	0.74		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:56	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Cobalt	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Copper	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Iron	0.35		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:56	1
Lead	0.062		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:56	1
Magnesium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Manganese	13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Potassium	4.8		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:56	1
Selenium	0.022	J	0.050	0.020	mg/L		07/26/15 17:40	07/28/15 14:41	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Vanadium	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:56	1
Zinc	0.48		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	77		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:06	1
Arsenic	0.037	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:06	1
Beryllium	0.0045		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:06	1
Calcium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Chromium	0.099		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Cobalt	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Copper	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Iron	93		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:06	1
Lead	0.16		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:06	1
Magnesium	18		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Manganese	1.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Nickel	0.088		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Potassium	18		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:06	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:06	1
Zinc	0.56	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU	-		07/23/15 13:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0047	0.0037	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	07/21/15 13:45	07/22/15 19:36	1
Dibromofluoromethane	107		75 - 120	07/21/15 13:45	07/22/15 19:36	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	07/21/15 13:45	07/22/15 19:36	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/22/15 19:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Anthracene	0.035	J	0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[a]anthracene	0.12		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[b]fluoranthene	0.22		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[g,h,i]perylene	0.11		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Benzo[k]fluoranthene	0.11		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Chrysene	0.15		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Fluoranthene	0.24		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Fluorene	0.016 J		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Indeno[1,2,3-cd]pyrene	0.071		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Lab Sample ID: 500-98820-4

Date Collected: 07/20/15 16:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Phenanthrene	0.16		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
Pyrene	0.51		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		25 - 119	07/24/15 07:07	07/29/15 15:17	1
2-Fluorophenol	63		25 - 110	07/24/15 07:07	07/29/15 15:17	1
Nitrobenzene-d5	45		25 - 115	07/24/15 07:07	07/29/15 15:17	1
Phenol-d5	64		31 - 110	07/24/15 07:07	07/29/15 15:17	1
Terphenyl-d14	180	X	36 - 134	07/24/15 07:07	07/29/15 15:17	1
2,4,6-Tribromophenol	88		35 - 137	07/24/15 07:07	07/29/15 15:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Antimony	0.32	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Arsenic	6.8		0.60	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Barium	87		0.60	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Beryllium	0.78		0.24	0.052	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Cadmium	0.27		0.12	0.035	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Chromium	20		0.60	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Cobalt	10		0.30	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Copper	25		0.60	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Iron	20000		12	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Lead	57		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Magnesium	12000		6.0	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Calcium	17000		12	3.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Manganese	480		0.60	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Nickel	21		0.60	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Selenium	0.72		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:22	1
Silver	0.11	J B	0.30	0.070	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:22	1
Vanadium	27		0.30	0.087	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Zinc	110		1.2	0.38	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Potassium	2300		30	4.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1
Sodium	1800		60	7.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.018	0.0062	mg/Kg	☼	07/27/15 18:45	07/28/15 11:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (0-5)

Date Collected: 07/20/15 16:20

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-4

Matrix: Solid

Percent Solids: 83.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:00	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Barium	0.49	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:00	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:00	1
Calcium	560		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:00	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Manganese	1.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Potassium	4.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:00	1
Zinc	0.20		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	46		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:13	1
Arsenic	0.027	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Barium	0.50		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:13	1
Calcium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Chromium	0.072		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Copper	0.088		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Iron	56		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:13	1
Lead	0.030		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:13	1
Magnesium	24		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Manganese	0.52		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Nickel	0.068		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Potassium	22		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:13	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Vanadium	0.080		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:13	1
Zinc	0.50	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:13	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		07/26/15 17:40	07/27/15 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.62		0.200	0.200	SU	-		07/23/15 13:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0032	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/22/15 20:00	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/22/15 20:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/21/15 13:45	07/22/15 20:00	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/22/15 20:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Lab Sample ID: 500-98820-5

Date Collected: 07/20/15 16:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
Pyrene	0.0097	J	0.036	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 07:07	07/28/15 22:06	1
2-Fluorophenol	176	X	25 - 110	07/24/15 07:07	07/28/15 22:06	1
Nitrobenzene-d5	69		25 - 115	07/24/15 07:07	07/28/15 22:06	1
Phenol-d5	194	X	31 - 110	07/24/15 07:07	07/28/15 22:06	1
Terphenyl-d14	69		36 - 134	07/24/15 07:07	07/28/15 22:06	1
2,4,6-Tribromophenol	66		35 - 137	07/24/15 07:07	07/28/15 22:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9300		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Antimony	0.36	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Arsenic	5.7		0.56	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Barium	37		0.56	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Beryllium	0.60		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Chromium	16		0.56	0.097	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Cobalt	9.0		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Copper	21		0.56	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Iron	17000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Lead	8.4		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Calcium	81000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 05:12	10
Manganese	450		0.56	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Nickel	24		0.56	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Selenium	0.62		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:36	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:36	1
Vanadium	19		0.28	0.082	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Zinc	38		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Potassium	3200		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1
Sodium	260		56	7.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0066	mg/Kg	☼	07/27/15 18:45	07/28/15 11:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B20 (5-11)

Date Collected: 07/20/15 16:30

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-5

Matrix: Solid

Percent Solids: 86.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:05	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Barium	0.34	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:05	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:05	1
Calcium	90		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Iron	0.78		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:05	1
Magnesium	31		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Manganese	0.25		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Potassium	2.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:05	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:05	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:05	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:20	1
Arsenic	0.064		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Barium	0.97		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:20	1
Beryllium	0.0095		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:20	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:20	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Cobalt	0.047		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Copper	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Iron	210		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:20	1
Lead	0.088		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:20	1
Magnesium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Nickel	0.20		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Potassium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:20	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:20	1
Zinc	0.85	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0034		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 19:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU	-		07/23/15 13:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.0058	0.0045	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Benzene	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromodichloromethane	<0.0058		0.0058	0.00099	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromoform	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Carbon disulfide	<0.0058		0.0058	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Carbon tetrachloride	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chlorobenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloroethane	<0.0058		0.0058	0.0025	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloroform	<0.0058		0.0058	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Chloromethane	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.0013	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Dibromochloromethane	<0.0058		0.0058	0.00067	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1-Dichloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1-Dichloroethene	<0.0058		0.0058	0.0021	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloropropane	<0.0058		0.0058	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,3-Dichloropropane, Total	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Ethylbenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Methylene Chloride	<0.0058		0.0058	0.0044	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Methyl tert-butyl ether	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Styrene	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.00093	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Tetrachloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Toluene	<0.0058		0.0058	0.0020	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.0015	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.0011	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Trichloroethene	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Vinyl acetate	<0.0058		0.0058	0.0016	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Vinyl chloride	<0.0058		0.0058	0.0014	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	07/21/15 13:45	07/22/15 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/22/15 20:24	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/22/15 20:24	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	07/21/15 13:45	07/22/15 20:24	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/22/15 20:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[b]fluoranthene	0.059		0.040	0.0086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[g,h,i]perylene	0.028	J	0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Chrysene	0.044		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Fluoranthene	0.076		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Lab Sample ID: 500-98820-6

Date Collected: 07/20/15 10:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Phenanthrene	0.039	J	0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
Pyrene	0.063		0.040	0.0079	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 07:07	07/28/15 22:31	1
2-Fluorophenol	63		25 - 110	07/24/15 07:07	07/28/15 22:31	1
Nitrobenzene-d5	66		25 - 115	07/24/15 07:07	07/28/15 22:31	1
Phenol-d5	71		31 - 110	07/24/15 07:07	07/28/15 22:31	1
Terphenyl-d14	74		36 - 134	07/24/15 07:07	07/28/15 22:31	1
2,4,6-Tribromophenol	54		35 - 137	07/24/15 07:07	07/28/15 22:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Antimony	0.56	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Arsenic	7.2		0.61	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Barium	80		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Beryllium	0.82		0.25	0.053	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Chromium	23		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Cobalt	15		0.31	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Copper	19		0.61	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Iron	24000		12	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Lead	19		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Magnesium	4600		6.1	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Calcium	2500		12	3.9	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Manganese	700		0.61	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Nickel	25		0.61	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Selenium	0.70		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:41	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 01:41	1
Vanadium	29		0.31	0.090	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Zinc	56		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Potassium	2400		31	5.0	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1
Sodium	930		61	8.1	mg/Kg	☼	07/23/15 10:00	07/25/15 06:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 11:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (0-5)

Date Collected: 07/20/15 10:20

Date Received: 07/21/15 11:00

Lab Sample ID: 500-98820-6

Matrix: Solid

Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:17	1
Magnesium	46		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Manganese	1.0		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Potassium	3.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:17	1
Zinc	0.15		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:26	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Barium	0.30	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:26	1
Calcium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Chromium	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Iron	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:26	1
Magnesium	9.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Manganese	0.040		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Potassium	4.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:26	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:26	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:26	1
Zinc	0.35	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:26	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		07/26/15 17:40	07/27/15 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU	-		07/23/15 13:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0044	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Benzene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromodichloromethane	<0.0057		0.0057	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromoform	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Carbon disulfide	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Carbon tetrachloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chlorobenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloroethane	<0.0057		0.0057	0.0024	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloroform	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Chloromethane	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Dibromochloromethane	<0.0057		0.0057	0.00066	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1-Dichloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1-Dichloroethene	<0.0057		0.0057	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloropropane	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,3-Dichloropropane, Total	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Ethylbenzene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Methylene Chloride	<0.0057		0.0057	0.0043	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Methyl tert-butyl ether	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Styrene	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Tetrachloroethene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Toluene	<0.0057		0.0057	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Trichloroethene	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Vinyl acetate	<0.0057		0.0057	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Vinyl chloride	<0.0057		0.0057	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 11:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 11:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 11:10	1
Toluene-d8 (Surr)	117		75 - 122	07/21/15 13:45	07/23/15 11:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Phenanthrene	0.012	J	0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	07/24/15 07:07	07/28/15 22:56	1
2-Fluorophenol	71		25 - 110	07/24/15 07:07	07/28/15 22:56	1
Nitrobenzene-d5	68		25 - 115	07/24/15 07:07	07/28/15 22:56	1
Phenol-d5	73		31 - 110	07/24/15 07:07	07/28/15 22:56	1
Terphenyl-d14	79		36 - 134	07/24/15 07:07	07/28/15 22:56	1
2,4,6-Tribromophenol	51		35 - 137	07/24/15 07:07	07/28/15 22:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Antimony	0.48	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Arsenic	7.0		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Barium	33		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Chromium	16		0.57	0.097	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Cobalt	10		0.28	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Copper	20		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Iron	18000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Lead	9.1		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Calcium	88000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 05:19	10
Manganese	700		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Nickel	28		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Selenium	0.60		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:45	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:45	1
Vanadium	20		0.28	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Zinc	39		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Potassium	3500		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1
Sodium	320		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 06:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0063	mg/Kg	☼	07/27/15 18:45	07/28/15 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B21 (5-11)

Lab Sample ID: 500-98820-7

Date Collected: 07/20/15 10:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:22	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Barium	0.40	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:22	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:22	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Iron	0.27		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:22	1
Magnesium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Manganese	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Potassium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:22	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:22	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:22	1
Zinc	0.13		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	92		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:33	1
Arsenic	0.057		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Barium	0.63		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:33	1
Beryllium	0.0059		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:33	1
Calcium	53		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Chromium	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Cobalt	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Copper	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:33	1
Lead	0.20		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:33	1
Magnesium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Manganese	0.76		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Nickel	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Potassium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:33	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:33	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Vanadium	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:33	1
Zinc	0.87	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:33	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		07/26/15 17:40	07/27/15 20:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.90		0.200	0.200	SU	-		07/23/15 13:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/23/15 11:34	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 11:34	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 11:34	1
Toluene-d8 (Surr)	120		75 - 122	07/21/15 13:45	07/23/15 11:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Anthracene	0.025	J	0.038	0.0065	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.13		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[b]fluoranthene	0.16		0.038	0.0084	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Benzo[k]fluoranthene	0.064		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Chrysene	0.17		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Fluoranthene	0.25		0.038	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Fluorene	0.0082 J		0.038	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Phenanthrene	0.087		0.038	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
Pyrene	0.28		0.038	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		25 - 119	07/24/15 07:07	07/29/15 07:26	1
2-Fluorophenol	60		25 - 110	07/24/15 07:07	07/29/15 07:26	1
Nitrobenzene-d5	60		25 - 115	07/24/15 07:07	07/29/15 07:26	1
Phenol-d5	70		31 - 110	07/24/15 07:07	07/29/15 07:26	1
Terphenyl-d14	78		36 - 134	07/24/15 07:07	07/29/15 07:26	1
2,4,6-Tribromophenol	55		35 - 137	07/24/15 07:07	07/29/15 07:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8500		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Antimony	0.44	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Arsenic	5.9		0.59	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Barium	34		0.59	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Beryllium	0.55		0.24	0.051	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Cadmium	0.051	J	0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Chromium	15		0.59	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Cobalt	9.6		0.30	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Copper	20		0.59	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Lead	20		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Magnesium	31000		5.9	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Calcium	82000		120	38	mg/Kg	☼	07/23/15 10:00	07/27/15 05:26	10
Manganese	520		0.59	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Nickel	22		0.59	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Selenium	0.61		0.59	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:51	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:51	1
Vanadium	18		0.30	0.086	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Zinc	51		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Potassium	3000		30	4.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1
Sodium	690		59	7.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 11:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 (0-4)

Lab Sample ID: 500-98820-8

Date Collected: 07/20/15 15:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Barium	0.35	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:27	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:27	1
Calcium	560		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Iron	0.26		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:27	1
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Manganese	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Potassium	3.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:27	1
Zinc	0.12		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	88		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:40	1
Arsenic	0.052		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Barium	0.60		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:40	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:40	1
Calcium	66		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Chromium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Cobalt	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Iron	120		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:40	1
Lead	0.099		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:40	1
Magnesium	41		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Manganese	0.67		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Nickel	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Potassium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:40	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Vanadium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:40	1
Zinc	0.67	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:40	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		07/26/15 17:40	07/27/15 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.08		0.200	0.200	SU	-		07/23/15 13:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Benzene	<0.0044		0.0044	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromoform	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloroform	<0.0044		0.0044	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Tetrachloroethene	<0.0044		0.0044	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 11:58	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 11:58	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/21/15 13:45	07/23/15 11:58	1
Toluene-d8 (Surr)	116		75 - 122	07/21/15 13:45	07/23/15 11:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Anthracene	0.0090	J	0.038	0.0063	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[a]anthracene	0.060		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[b]fluoranthene	0.098		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Chrysene	0.062		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Fluoranthene	0.073		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Phenanthrene	0.037	J	0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
Pyrene	0.23		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/30/15 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	07/24/15 07:07	07/30/15 13:16	1
2-Fluorophenol	60		25 - 110	07/24/15 07:07	07/30/15 13:16	1
Nitrobenzene-d5	48		25 - 115	07/24/15 07:07	07/30/15 13:16	1
Phenol-d5	54		31 - 110	07/24/15 07:07	07/30/15 13:16	1
Terphenyl-d14	193	X	36 - 134	07/24/15 07:07	07/30/15 13:16	1
2,4,6-Tribromophenol	35		35 - 137	07/24/15 07:07	07/30/15 13:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		12	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Antimony	0.55	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Arsenic	5.7		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Barium	36		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Chromium	16		0.58	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Cobalt	6.3		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Copper	22		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Iron	16000		12	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Lead	12		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Magnesium	29000		5.8	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Calcium	86000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 05:48	10
Manganese	390		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Nickel	19		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Selenium	0.75		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 01:56	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 01:56	1
Vanadium	20		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Zinc	42		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Potassium	3400		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1
Sodium	810		58	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 07:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	F2	0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B22 Dup (0-4)

Lab Sample ID: 500-98820-9

Date Collected: 07/20/15 15:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:33	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:33	1
Calcium	69		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Iron	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:33	1
Magnesium	14		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Manganese	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Potassium	2.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:33	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:33	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:47	1
Arsenic	0.063		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Barium	0.95		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 22:47	1
Beryllium	0.0099		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 22:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 22:47	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Cobalt	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Copper	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Iron	210		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 22:47	1
Lead	0.066		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 22:47	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Manganese	0.86		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Nickel	0.21		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Potassium	28		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 22:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 22:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Vanadium	0.30		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 22:47	1
Zinc	0.70	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 22:47	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		07/26/15 17:40	07/27/15 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0031		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU	-		07/23/15 14:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0041	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/21/15 13:45	07/23/15 12:22	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 12:22	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/21/15 13:45	07/23/15 12:22	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 12:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		25 - 119	07/24/15 07:07	07/28/15 23:20	1
2-Fluorophenol	59		25 - 110	07/24/15 07:07	07/28/15 23:20	1
Nitrobenzene-d5	61		25 - 115	07/24/15 07:07	07/28/15 23:20	1
Phenol-d5	66		31 - 110	07/24/15 07:07	07/28/15 23:20	1
Terphenyl-d14	78		36 - 134	07/24/15 07:07	07/28/15 23:20	1
2,4,6-Tribromophenol	60		35 - 137	07/24/15 07:07	07/28/15 23:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Antimony	0.50	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Arsenic	7.2		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Barium	78		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Beryllium	0.88		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Cadmium	0.18		0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Chromium	24		0.58	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Cobalt	14		0.29	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Copper	20		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Iron	25000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Lead	15		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Magnesium	4300		5.8	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Calcium	2000		12	3.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Manganese	460		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Selenium	0.69		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:01	1
Vanadium	32		0.29	0.085	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Zinc	52		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Potassium	2000		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1
Sodium	2100		58	7.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (0-5)

Lab Sample ID: 500-98820-10

Date Collected: 07/20/15 10:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 82.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cadmium	0.0057		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:45	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Cobalt	0.028		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Iron	0.35		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:37	1
Magnesium	260		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Manganese	3.4		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Nickel	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Potassium	2.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:37	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:37	1
Zinc	0.17	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:37	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:09	1
Arsenic	0.038	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Barium	0.51		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:09	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:09	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Chromium	0.095		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Copper	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Iron	82		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:09	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:09	1
Magnesium	33		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Manganese	0.37		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Nickel	0.093		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:09	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Vanadium	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:09	1
Zinc	0.51	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.72		0.200	0.200	SU	-		07/23/15 14:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0040	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/21/15 13:45	07/23/15 12:46	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 12:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/23/15 12:46	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 12:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/28/15 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	07/24/15 07:07	07/28/15 23:45	1
2-Fluorophenol	66		25 - 110	07/24/15 07:07	07/28/15 23:45	1
Nitrobenzene-d5	67		25 - 115	07/24/15 07:07	07/28/15 23:45	1
Phenol-d5	73		31 - 110	07/24/15 07:07	07/28/15 23:45	1
Terphenyl-d14	72		36 - 134	07/24/15 07:07	07/28/15 23:45	1
2,4,6-Tribromophenol	34	X	35 - 137	07/24/15 07:07	07/28/15 23:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Antimony	0.45	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Arsenic	4.8		0.55	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Barium	24		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Beryllium	0.51		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Chromium	14		0.55	0.094	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Cobalt	6.7		0.27	0.062	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Copper	20		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Iron	15000		11	4.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Lead	8.9		0.27	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Magnesium	34000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Calcium	87000		110	35	mg/Kg	☼	07/23/15 10:00	07/27/15 05:55	10
Manganese	470		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Nickel	18		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Selenium	0.60		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:06	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:06	1
Vanadium	17		0.27	0.080	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Zinc	40		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Potassium	2900		27	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1
Sodium	430		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.017	0.0061	mg/Kg	☼	07/27/15 18:45	07/28/15 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B23 (5-11)

Lab Sample ID: 500-98820-11

Date Collected: 07/20/15 10:50

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:42	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Barium	0.47	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:42	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:42	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:42	1
Magnesium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Manganese	0.85		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Potassium	1.7	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:42	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:42	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:42	1
Zinc	0.26		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:42	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	83		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:16	1
Arsenic	0.040	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Barium	0.58		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:16	1
Beryllium	0.0053		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:16	1
Calcium	59		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Cobalt	0.031		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Copper	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Iron	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:16	1
Lead	0.043		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:16	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Manganese	0.59		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Nickel	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Potassium	29		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:16	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:16	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:16	1
Zinc	0.55	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0025		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU	-		07/23/15 14:10	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/21/15 13:45	07/23/15 16:46	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 16:46	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/21/15 13:45	07/23/15 16:46	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Pentachlorophenol	<0.74		0.74	0.58	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		25 - 119	07/24/15 07:07	07/29/15 00:10	1
2-Fluorophenol	62		25 - 110	07/24/15 07:07	07/29/15 00:10	1
Nitrobenzene-d5	64		25 - 115	07/24/15 07:07	07/29/15 00:10	1
Phenol-d5	74		31 - 110	07/24/15 07:07	07/29/15 00:10	1
Terphenyl-d14	82		36 - 134	07/24/15 07:07	07/29/15 00:10	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/29/15 00:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Antimony	0.44	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Arsenic	5.6		0.55	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Barium	41		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Beryllium	0.64		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Chromium	17		0.55	0.095	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Cobalt	9.5		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Copper	20		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Iron	17000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Lead	8.9		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Magnesium	29000		5.5	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Calcium	78000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:02	10
Manganese	480		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Nickel	23		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Selenium	0.35	J	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:11	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:11	1
Vanadium	20		0.28	0.081	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Zinc	38		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Potassium	3200		28	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1
Sodium	1100		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 07:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0062	mg/Kg	☼	07/27/15 18:45	07/28/15 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B25 (0-4)

Lab Sample ID: 500-98820-12

Date Collected: 07/20/15 11:10

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 87.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:47	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Barium	0.72		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:47	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:47	1
Calcium	230		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Cobalt	0.034		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Iron	0.31		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:47	1
Lead	0.011		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:47	1
Magnesium	68		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Manganese	16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Nickel	0.027		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Potassium	3.1		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:47	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:47	1
Zinc	0.26		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:23	1
Arsenic	0.088		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Barium	1.3		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:23	1
Beryllium	0.011		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:23	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:23	1
Calcium	38		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Chromium	0.26		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Cobalt	0.085		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Copper	0.29		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Iron	240		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:23	1
Lead	0.23		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:23	1
Magnesium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Manganese	3.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Nickel	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Potassium	44		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Vanadium	0.33		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:23	1
Zinc	0.77	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:23	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		07/26/15 17:40	07/27/15 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0043		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU	-		07/23/15 14:15	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0050	0.0038	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/21/15 13:45	07/23/15 17:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 17:10	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	07/21/15 13:45	07/23/15 17:10	1
Toluene-d8 (Surr)	111		75 - 122	07/21/15 13:45	07/23/15 17:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Anthracene	0.018	J	0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[a]anthracene	0.074		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.093		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[b]fluoranthene	0.15		0.040	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[g,h,i]perylene	0.067		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Benzo[k]fluoranthene	0.066		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Chrysene	0.11		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Fluoranthene	0.13		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Indeno[1,2,3-cd]pyrene	0.061		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Phenanthrene	0.081		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
Pyrene	0.29		0.040	0.0080	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	07/24/15 07:07	07/29/15 16:00	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 16:00	1
Nitrobenzene-d5	56		25 - 115	07/24/15 07:07	07/29/15 16:00	1
Phenol-d5	77		31 - 110	07/24/15 07:07	07/29/15 16:00	1
Terphenyl-d14	210	X	36 - 134	07/24/15 07:07	07/29/15 16:00	1
2,4,6-Tribromophenol	92		35 - 137	07/24/15 07:07	07/29/15 16:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		12	3.1	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Antimony	<1.2		1.2	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Arsenic	7.4		0.62	0.29	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Barium	84		0.62	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Beryllium	0.94		0.25	0.054	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Chromium	25		0.62	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Cobalt	12		0.31	0.070	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Copper	24		0.62	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Iron	24000		12	4.8	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Lead	24		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Magnesium	12000		6.2	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Calcium	13000		12	4.0	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Manganese	370		0.62	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Nickel	32		0.62	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Selenium	0.68		0.62	0.31	mg/Kg	☼	07/23/15 10:00	07/27/15 02:16	1
Silver	0.12	J B	0.31	0.073	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	07/23/15 10:00	07/27/15 02:16	1
Vanadium	29		0.31	0.091	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Zinc	59		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Potassium	3500		31	5.1	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1
Sodium	2200		62	8.2	mg/Kg	☼	07/23/15 10:00	07/25/15 07:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (0-5)

Lab Sample ID: 500-98820-13

Date Collected: 07/20/15 11:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 79.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	07/27/15 14:15	07/27/15 16:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cadmium	0.0055		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:49	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Cobalt	0.030		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:51	1
Magnesium	240		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Manganese	3.3		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Nickel	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Potassium	1.9	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:51	1
Zinc	0.13	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	63		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:30	1
Arsenic	0.030	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Barium	0.61		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:30	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:30	1
Calcium	61		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Chromium	0.096		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Cobalt	0.019	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Copper	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Iron	75		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:30	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:30	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Manganese	0.38		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Nickel	0.086		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Potassium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:30	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:30	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Vanadium	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:30	1
Zinc	0.66	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:30	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		07/26/15 17:40	07/27/15 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:10	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU	-		07/23/15 14:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0043	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Dibromochloromethane	<0.0055		0.0055	0.00064	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloropropane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Tetrachloroethene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/21/15 13:45	07/23/15 17:34	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 17:34	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 17:34	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	07/24/15 07:07	07/29/15 00:34	1
2-Fluorophenol	71		25 - 110	07/24/15 07:07	07/29/15 00:34	1
Nitrobenzene-d5	70		25 - 115	07/24/15 07:07	07/29/15 00:34	1
Phenol-d5	80		31 - 110	07/24/15 07:07	07/29/15 00:34	1
Terphenyl-d14	83		36 - 134	07/24/15 07:07	07/29/15 00:34	1
2,4,6-Tribromophenol	38		35 - 137	07/24/15 07:07	07/29/15 00:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800		12	2.9	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Antimony	0.39	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Arsenic	5.4		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Barium	31		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Beryllium	0.56		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Chromium	15		0.58	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Cobalt	6.0		0.29	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Copper	21		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Lead	8.5		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Magnesium	32000		5.8	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Calcium	89000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:09	10
Manganese	420		0.58	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Nickel	19		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Selenium	0.45	J	0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:20	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:20	1
Vanadium	18		0.29	0.085	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Zinc	36		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Potassium	3100		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1
Sodium	530		58	7.7	mg/Kg	☼	07/23/15 10:00	07/25/15 07:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.019	0.0065	mg/Kg	☼	07/27/15 18:45	07/28/15 12:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B27 (5-11)

Lab Sample ID: 500-98820-14

Date Collected: 07/20/15 11:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 14:15	07/27/15 16:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:56	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 19:56	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 19:56	1
Calcium	84		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Iron	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 19:56	1
Magnesium	32		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Manganese	0.48		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Potassium	2.9		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 19:56	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 19:56	1
Zinc	0.17		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 19:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	180		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:36	1
Arsenic	0.074		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Barium	0.93		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:36	1
Beryllium	0.0096		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:36	1
Calcium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Cobalt	0.054		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Copper	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Iron	220		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:36	1
Lead	0.081		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:36	1
Magnesium	45		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Nickel	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Potassium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Vanadium	0.28		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:36	1
Zinc	0.50	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:36	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		07/26/15 17:40	07/27/15 20:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0037		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 20:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU	-		07/23/15 14:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/21/15 13:45	07/23/15 17:58	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/23/15 17:58	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 17:58	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/23/15 17:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	07/24/15 07:07	07/29/15 00:59	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 00:59	1
Nitrobenzene-d5	81		25 - 115	07/24/15 07:07	07/29/15 00:59	1
Phenol-d5	87		31 - 110	07/24/15 07:07	07/29/15 00:59	1
Terphenyl-d14	92		36 - 134	07/24/15 07:07	07/29/15 00:59	1
2,4,6-Tribromophenol	53		35 - 137	07/24/15 07:07	07/29/15 00:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Antimony	0.64	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Arsenic	9.0		0.60	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Barium	110		0.60	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Beryllium	0.96		0.24	0.052	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Chromium	26		0.60	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Cobalt	14		0.30	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Copper	31		0.60	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Iron	28000		12	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Lead	21		0.30	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Magnesium	5900		6.0	2.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Calcium	2800		12	3.9	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Manganese	540		0.60	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Nickel	35		0.60	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Selenium	0.61		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:34	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:34	1
Vanadium	31		0.30	0.088	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Zinc	59		1.2	0.38	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Potassium	3100		30	4.9	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1
Sodium	1800		60	8.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (0-5)

Lab Sample ID: 500-98820-15

Date Collected: 07/20/15 15:20

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 80.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:00	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Barium	0.55		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:00	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:00	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Iron	0.43		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:00	1
Magnesium	39		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Manganese	1.0		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Potassium	2.7		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:00	1
Zinc	0.15		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	97		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:43	1
Arsenic	0.060		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Barium	0.53		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:43	1
Beryllium	0.0065		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:43	1
Calcium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Chromium	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Cobalt	0.043		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Copper	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Iron	140		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:43	1
Lead	0.066		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:43	1
Magnesium	45		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Nickel	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Potassium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:43	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Vanadium	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:43	1
Zinc	0.41	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:43	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		07/26/15 17:40	07/27/15 20:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0021		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU	-		07/23/15 14:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0098		0.0046	0.0036	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromoform	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloroethane	<0.0046		0.0046	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloroform	<0.0046		0.0046	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Ethylbenzene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Tetrachloroethene	<0.0046		0.0046	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Trichloroethene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/23/15 18:22	1
Dibromofluoromethane	108		75 - 120	07/21/15 13:45	07/23/15 18:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 18:22	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/23/15 18:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	07/24/15 07:07	07/29/15 01:24	1
2-Fluorophenol	75		25 - 110	07/24/15 07:07	07/29/15 01:24	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/29/15 01:24	1
Phenol-d5	79		31 - 110	07/24/15 07:07	07/29/15 01:24	1
Terphenyl-d14	72		36 - 134	07/24/15 07:07	07/29/15 01:24	1
2,4,6-Tribromophenol	45		35 - 137	07/24/15 07:07	07/29/15 01:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Antimony	0.40	J B	1.1	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Arsenic	7.0		0.57	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Barium	33		0.57	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Beryllium	0.58		0.23	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Chromium	16		0.57	0.098	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Cobalt	5.0		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Copper	25		0.57	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Iron	18000		11	4.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Lead	9.9		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Magnesium	33000		5.7	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Calcium	85000		110	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:15	10
Manganese	380		0.57	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Nickel	20		0.57	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Selenium	0.41	J	0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:39	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:39	1
Vanadium	19		0.29	0.083	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Zinc	42		1.1	0.36	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Potassium	3100		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1
Sodium	300		57	7.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B26 (5-11)

Lab Sample ID: 500-98820-16

Date Collected: 07/20/15 15:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:13	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Barium	0.42	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:13	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:13	1
Calcium	600		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Iron	0.32		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:13	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Potassium	2.0	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:13	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:13	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:50	1
Arsenic	0.016	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Barium	0.44	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:50	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Chromium	0.065		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Cobalt	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Copper	0.069		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Iron	48		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:50	1
Lead	0.019		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:50	1
Magnesium	24		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Manganese	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Nickel	0.053		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Potassium	17		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:50	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Vanadium	0.074		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:50	1
Zinc	0.36	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:50	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		07/26/15 17:40	07/27/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU	-		07/23/15 14:35	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/21/15 13:45	07/23/15 18:46	1
Dibromofluoromethane	105		75 - 120	07/21/15 13:45	07/23/15 18:46	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	07/21/15 13:45	07/23/15 18:46	1
Toluene-d8 (Surr)	116		75 - 122	07/21/15 13:45	07/23/15 18:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	07/24/15 07:07	07/29/15 01:48	1
2-Fluorophenol	76		25 - 110	07/24/15 07:07	07/29/15 01:48	1
Nitrobenzene-d5	78		25 - 115	07/24/15 07:07	07/29/15 01:48	1
Phenol-d5	83		31 - 110	07/24/15 07:07	07/29/15 01:48	1
Terphenyl-d14	76		36 - 134	07/24/15 07:07	07/29/15 01:48	1
2,4,6-Tribromophenol	52		35 - 137	07/24/15 07:07	07/29/15 01:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9800		11	2.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Antimony	0.26	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Arsenic	4.5		0.55	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Barium	37		0.55	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Chromium	17		0.55	0.095	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Cobalt	5.8		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Copper	16		0.55	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Iron	16000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Lead	7.5		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Magnesium	27000		5.5	2.2	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Calcium	90000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:22	10
Manganese	330		0.55	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Nickel	19		0.55	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Selenium	0.50	J	0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:44	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	07/23/15 10:00	07/27/15 02:44	1
Vanadium	19		0.28	0.081	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Zinc	35		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Potassium	3300		28	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1
Sodium	230		55	7.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 12:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (0-5)

Lab Sample ID: 500-98820-17

Date Collected: 07/20/15 14:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	07/27/15 16:30	07/27/15 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:18	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Barium	0.68		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:18	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:18	1
Calcium	520		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:18	1
Magnesium	54		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Manganese	0.79		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Potassium	3.2		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:18	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:18	1
Zinc	0.19		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	21		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:57	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 23:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 23:57	1
Calcium	30		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Chromium	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Copper	0.036		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Iron	18		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 23:57	1
Lead	0.0085		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 23:57	1
Magnesium	16		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Manganese	0.14		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Nickel	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Potassium	10		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 23:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 23:57	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Vanadium	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 23:57	1
Zinc	0.43	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 23:57	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		07/26/15 17:40	07/27/15 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU	-		07/23/15 14:40	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 19:10	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 19:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/21/15 13:45	07/23/15 19:10	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 19:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
Pyrene	0.0081	J	0.037	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	07/24/15 07:07	07/29/15 02:12	1
2-Fluorophenol	81		25 - 110	07/24/15 07:07	07/29/15 02:12	1
Nitrobenzene-d5	85		25 - 115	07/24/15 07:07	07/29/15 02:12	1
Phenol-d5	89		31 - 110	07/24/15 07:07	07/29/15 02:12	1
Terphenyl-d14	81		36 - 134	07/24/15 07:07	07/29/15 02:12	1
2,4,6-Tribromophenol	59		35 - 137	07/24/15 07:07	07/29/15 02:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		11	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Antimony	0.45	J B	1.1	0.23	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Arsenic	5.8		0.56	0.26	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Barium	39		0.56	0.10	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Beryllium	0.59		0.22	0.049	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Chromium	16		0.56	0.096	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Cobalt	12		0.28	0.063	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Copper	19		0.56	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Iron	16000		11	4.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Lead	8.7		0.28	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Magnesium	31000		5.6	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Calcium	75000		110	36	mg/Kg	☼	07/23/15 10:00	07/27/15 06:29	10
Manganese	480		0.56	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Nickel	25		0.56	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Selenium	0.47	J	0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:49	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:49	1
Vanadium	19		0.28	0.082	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Zinc	36		1.1	0.35	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Potassium	3300		28	4.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1
Sodium	260		56	7.4	mg/Kg	☼	07/23/15 10:00	07/25/15 08:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0066	mg/Kg	☼	07/27/15 18:45	07/28/15 12:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B28 (5-11)

Lab Sample ID: 500-98820-18

Date Collected: 07/20/15 15:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:23	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Barium	0.43	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:23	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:23	1
Calcium	320		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Copper	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:23	1
Magnesium	95		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Manganese	3.8		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Nickel	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Potassium	1.9	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:23	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:23	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	170		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:03	1
Arsenic	0.068		0.050	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Barium	0.92		0.50	0.050	mg/L		07/26/15 17:40	07/28/15 00:03	1
Beryllium	0.011		0.0040	0.0040	mg/L		07/26/15 17:40	07/28/15 00:03	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/28/15 00:03	1
Calcium	37		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Chromium	0.22		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Cobalt	0.058		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Copper	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Iron	200		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:03	1
Lead	0.23		0.0075	0.0075	mg/L		07/26/15 17:40	07/28/15 00:03	1
Magnesium	43		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Manganese	1.2		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Nickel	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Potassium	35		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/28/15 00:03	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:03	1
Zinc	0.74	B	0.10	0.020	mg/L		07/26/15 17:40	07/28/15 00:03	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		07/26/15 17:40	07/27/15 20:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0036		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 21:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU	-		07/23/15 14:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0042	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Vinyl acetate	<0.0054		0.0054	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/23/15 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 19:34	1
Dibromofluoromethane	107		75 - 120	07/21/15 13:45	07/23/15 19:34	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/21/15 13:45	07/23/15 19:34	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 19:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[a]anthracene	0.052		0.040	0.0054	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[b]fluoranthene	0.10		0.040	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[g,h,i]perylene	0.054		0.040	0.013	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Benzo[k]fluoranthene	0.048		0.040	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Chrysene	0.080		0.040	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Fluoranthene	0.11		0.040	0.0075	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Indeno[1,2,3-cd]pyrene	0.041		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Phenanthrene	0.046		0.040	0.0056	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
Pyrene	0.095		0.040	0.0080	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/24/15 07:07	07/29/15 06:38	1
2-Fluorophenol	69		25 - 110	07/24/15 07:07	07/29/15 06:38	1
Nitrobenzene-d5	74		25 - 115	07/24/15 07:07	07/29/15 06:38	1
Phenol-d5	81		31 - 110	07/24/15 07:07	07/29/15 06:38	1
Terphenyl-d14	83		36 - 134	07/24/15 07:07	07/29/15 06:38	1
2,4,6-Tribromophenol	54		35 - 137	07/24/15 07:07	07/29/15 06:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	3.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Antimony	0.49	J B	1.2	0.25	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Arsenic	7.5		0.61	0.28	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Barium	81		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Beryllium	0.90		0.25	0.053	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Chromium	22		0.61	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Cobalt	12		0.31	0.069	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Copper	26		0.61	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Iron	23000		12	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Lead	19		0.31	0.15	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Magnesium	6600		6.1	2.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Calcium	5200		12	4.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Manganese	730		0.61	0.12	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Nickel	38		0.61	0.17	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Selenium	0.48	J	0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:54	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	07/23/15 10:00	07/27/15 02:54	1
Vanadium	24		0.31	0.090	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Zinc	49		1.2	0.39	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Potassium	2300		31	5.0	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1
Sodium	1400		61	8.1	mg/Kg	☼	07/23/15 10:00	07/25/15 08:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (0-5)

Lab Sample ID: 500-98820-19

Date Collected: 07/20/15 11:55

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.2		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Barium	0.68		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cadmium	0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Calcium	1200		25	5.0	mg/L		07/26/15 17:40	07/28/15 14:53	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Cobalt	0.022	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 20:27	1
Magnesium	220		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Manganese	2.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Nickel	0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Potassium	1.7	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 20:27	1
Zinc	0.16	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 20:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	81		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:10	1
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Barium	0.67		0.50	0.050	mg/L		07/26/15 17:40	07/28/15 00:10	1
Beryllium	0.0054		0.0040	0.0040	mg/L		07/26/15 17:40	07/28/15 00:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/28/15 00:10	1
Calcium	61		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Chromium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Cobalt	0.029		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Copper	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Iron	95		0.20	0.20	mg/L		07/26/15 17:40	07/28/15 00:10	1
Lead	0.037		0.0075	0.0075	mg/L		07/26/15 17:40	07/28/15 00:10	1
Magnesium	43		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Manganese	0.44		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Nickel	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Potassium	32		2.5	0.50	mg/L		07/26/15 17:40	07/28/15 00:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/28/15 00:10	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Vanadium	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/28/15 00:10	1
Zinc	0.51	B	0.10	0.020	mg/L		07/26/15 17:40	07/28/15 00:10	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		07/26/15 17:40	07/27/15 20:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 20:17	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/28/15 11:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0034		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/28/15 11:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 12:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47		0.200	0.200	SU	-		07/23/15 14:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/21/15 13:45	07/23/15 19:58	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/23/15 19:58	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/23/15 19:58	1
Toluene-d8 (Surr)	119		75 - 122	07/21/15 13:45	07/23/15 19:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:07	07/29/15 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	07/24/15 07:07	07/29/15 02:37	1
2-Fluorophenol	84		25 - 110	07/24/15 07:07	07/29/15 02:37	1
Nitrobenzene-d5	89		25 - 115	07/24/15 07:07	07/29/15 02:37	1
Phenol-d5	94		31 - 110	07/24/15 07:07	07/29/15 02:37	1
Terphenyl-d14	87		36 - 134	07/24/15 07:07	07/29/15 02:37	1
2,4,6-Tribromophenol	58		35 - 137	07/24/15 07:07	07/29/15 02:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		12	2.8	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Antimony	0.50	J B	1.2	0.24	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Arsenic	5.1		0.58	0.27	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Barium	79		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Beryllium	0.62		0.23	0.050	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Chromium	17		0.58	0.099	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Cobalt	8.2		0.29	0.065	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Copper	19		0.58	0.13	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Iron	16000		12	4.5	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Lead	8.5		0.29	0.14	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Magnesium	29000		5.8	2.3	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Calcium	80000		120	37	mg/Kg	☼	07/23/15 10:00	07/27/15 06:36	10
Manganese	450		0.58	0.11	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Nickel	25		0.58	0.16	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Selenium	0.67		0.58	0.29	mg/Kg	☼	07/23/15 10:00	07/27/15 02:59	1
Silver	0.089	J B	0.29	0.068	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	07/23/15 10:00	07/27/15 02:59	1
Vanadium	20		0.29	0.084	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Zinc	37		1.2	0.37	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Potassium	3400		29	4.7	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1
Sodium	450		58	7.6	mg/Kg	☼	07/23/15 10:00	07/25/15 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 13:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B29 (5-11)

Lab Sample ID: 500-98820-20

Date Collected: 07/20/15 12:05

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	07/27/15 16:30	07/27/15 18:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.84		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:29	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Barium	0.33	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:29	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:29	1
Calcium	540		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Copper	0.010	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:29	1
Magnesium	34		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Manganese	1.2		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:29	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:29	1
Zinc	<0.10		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	70		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:40	1
Arsenic	0.026	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Barium	0.39	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:40	1
Beryllium	0.0046		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:40	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:40	1
Calcium	58		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Chromium	0.099		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Cobalt	0.042		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Copper	0.17		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Iron	100		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:40	1
Lead	0.070		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:20	5
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Manganese	0.66		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Nickel	0.16		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Potassium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:40	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Vanadium	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:40	1
Zinc	0.35		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:40	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		07/26/15 17:40	07/27/15 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0028		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 10:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.80		0.200	0.200	SU	-		07/23/15 14:54	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0061		0.0045	0.0035	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	07/21/15 13:45	07/23/15 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/21/15 13:45	07/23/15 20:22	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/23/15 20:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/21/15 13:45	07/23/15 20:22	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/23/15 20:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	07/24/15 07:23	07/29/15 03:01	1
2-Fluorophenol	71		25 - 110	07/24/15 07:23	07/29/15 03:01	1
Nitrobenzene-d5	78		25 - 115	07/24/15 07:23	07/29/15 03:01	1
Phenol-d5	83		31 - 110	07/24/15 07:23	07/29/15 03:01	1
Terphenyl-d14	86		36 - 134	07/24/15 07:23	07/29/15 03:01	1
2,4,6-Tribromophenol	42		35 - 137	07/24/15 07:23	07/29/15 03:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Antimony	0.46	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Arsenic	5.3		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Barium	38		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Beryllium	0.70		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Cadmium	0.28	B	0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Chromium	15		0.56	0.096	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Cobalt	11		0.28	0.063	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Copper	20		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Iron	17000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Lead	8.8		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:21	1
Magnesium	27000		5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Calcium	81000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:28	10
Manganese	360		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Nickel	27		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Selenium	0.43	J	0.57	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 22:51	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Thallium	1.2		0.56	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 00:21	1
Vanadium	19		0.28	0.081	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Zinc	63		1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Potassium	2300		28	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1
Sodium	510		56	7.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 (0-4)

Lab Sample ID: 500-98820-21

Date Collected: 07/20/15 14:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:34	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:34	1
Cadmium	0.0055		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:34	1
Calcium	1300		25	5.0	mg/L		07/26/15 17:40	07/28/15 15:29	10
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Cobalt	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Copper	0.015	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:34	1
Magnesium	150		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:34	1
Manganese	2.7		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Nickel	0.023	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Potassium	1.2	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:34	1
Selenium	0.021	J	0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:34	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:34	1
Zinc	0.13	B	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:44	1
Arsenic	0.013	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Barium	0.24	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:44	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:44	1
Calcium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Chromium	0.061		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Cobalt	0.012	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Copper	0.078		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Iron	55		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:44	1
Lead	<0.038		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:24	5
Magnesium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Manganese	0.29		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Nickel	0.066		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Potassium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Vanadium	0.075		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:44	1
Zinc	0.18		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:44	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		07/26/15 17:40	07/27/15 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.75		0.200	0.200	SU	-		07/23/15 14:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0033	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Benzene	<0.0043		0.0043	0.00094	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1-Dichloroethene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Trichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	07/21/15 13:45	07/23/15 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/23/15 16:22	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/23/15 16:22	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/21/15 13:45	07/23/15 16:22	1
Toluene-d8 (Surr)	118		75 - 122	07/21/15 13:45	07/23/15 16:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119				07/24/15 07:23	07/29/15 03:25	1
2-Fluorophenol	67		25 - 110				07/24/15 07:23	07/29/15 03:25	1
Nitrobenzene-d5	68		25 - 115				07/24/15 07:23	07/29/15 03:25	1
Phenol-d5	78		31 - 110				07/24/15 07:23	07/29/15 03:25	1
Terphenyl-d14	82		36 - 134				07/24/15 07:23	07/29/15 03:25	1
2,4,6-Tribromophenol	42		35 - 137				07/24/15 07:23	07/29/15 03:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.7	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Antimony	0.43	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Arsenic	6.4		0.55	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Barium	46		0.55	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Beryllium	0.71		0.22	0.048	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Cadmium	0.42	B	0.11	0.032	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Chromium	15		0.55	0.095	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Cobalt	8.0		0.28	0.062	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Copper	19		0.55	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Iron	18000		11	4.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Lead	8.7		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:35	1
Magnesium	26000		5.5	2.2	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Calcium	90000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:41	10
Manganese	390		0.55	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Nickel	25		0.55	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Selenium	0.29	J	0.56	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 22:56	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Thallium	1.2		0.55	0.27	mg/Kg	☼	07/24/15 10:00	07/27/15 00:35	1
Vanadium	20		0.28	0.081	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Zinc	54		1.1	0.35	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Potassium	2200		28	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1
Sodium	640		55	7.3	mg/Kg	☼	07/24/15 10:00	07/25/15 03:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0058	mg/Kg	☼	07/27/15 18:45	07/28/15 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B30 Dup (0-4)

Lab Sample ID: 500-98820-22

Date Collected: 07/20/15 14:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:39	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Barium	0.37	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:39	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:39	1
Calcium	530		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:39	1
Magnesium	23		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Manganese	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Potassium	2.4	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:39	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:39	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:39	1
Zinc	0.044	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:48	1
Arsenic	0.023	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Barium	0.32	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:48	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:48	1
Calcium	52		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Chromium	0.083		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Cobalt	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Copper	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Iron	78		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:48	1
Lead	0.092		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:28	5
Magnesium	26		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Manganese	0.45		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Nickel	0.098		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Potassium	21		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:48	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:48	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Vanadium	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:48	1
Zinc	0.33		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:48	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		07/26/15 17:40	07/27/15 19:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU	-		07/23/15 15:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0040	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/21/15 13:45	07/24/15 16:19	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/24/15 16:19	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	07/21/15 13:45	07/24/15 16:19	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/24/15 16:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[a]anthracene	0.037		0.036	0.0049	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.053		0.036	0.0071	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[b]fluoranthene	0.088		0.036	0.0079	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Benzo[k]fluoranthene	0.044		0.036	0.011	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Chrysene	0.057		0.036	0.010	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Fluoranthene	0.063		0.036	0.0068	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Phenanthrene	0.024	J	0.036	0.0051	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
Pyrene	0.17		0.036	0.0073	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/24/15 07:23	07/30/15 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	07/24/15 07:23	07/30/15 14:00	1
2-Fluorophenol	59		25 - 110	07/24/15 07:23	07/30/15 14:00	1
Nitrobenzene-d5	46		25 - 115	07/24/15 07:23	07/30/15 14:00	1
Phenol-d5	52		31 - 110	07/24/15 07:23	07/30/15 14:00	1
Terphenyl-d14	168	X	36 - 134	07/24/15 07:23	07/30/15 14:00	1
2,4,6-Tribromophenol	27	X	35 - 137	07/24/15 07:23	07/30/15 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Antimony	0.39	J	1.1	0.23	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Arsenic	7.3		0.56	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Barium	39		0.56	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Cadmium	0.33	B	0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Chromium	14		0.56	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Cobalt	10		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Copper	22		0.56	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Iron	17000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Lead	31		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 00:48	1
Magnesium	28000		5.6	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Calcium	91000		110	36	mg/Kg	☼	07/24/15 10:00	07/27/15 00:55	10
Manganese	440		0.56	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Nickel	25		0.56	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Selenium	0.46	J	0.55	0.27	mg/Kg	☼	07/26/15 20:19	07/27/15 23:01	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Thallium	0.96		0.56	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 00:48	1
Vanadium	20		0.28	0.082	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Zinc	66		1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Potassium	2000		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1
Sodium	1100		56	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0060	mg/Kg	☼	07/27/15 18:45	07/28/15 13:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Client Sample ID: 2682-4-B31 (0-4)

Lab Sample ID: 500-98820-23

Date Collected: 07/20/15 12:25

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:59	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-98820 COC

Report To (optional)

Contact: Matt Weiss
Company: Terracon
Address: 135 Ambassador Dr
Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-9489
E-Mail: matt.weiss@terracon.com

Bill To (optional)

Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-98820
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 2, 9, 3, 3, 2, 1

Client		Client Project #		Preservative		Parameter												Preservative Key		
		<u>11157102</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM												
		<u>Northbrook, IL</u>				<u>Cherd Kelly</u>														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 Metals	TCLP 24 Metals	SPLP 24 Metals	pH							Comments	
			Date	Time																
<u>1</u>		<u>2682-4-B17 (0-4)</u>	<u>7/20/15</u>	<u>9:30</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>2</u>		<u>2682-4-B19 (0-5)</u>	<u>7/20/15</u>	<u>9:50</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>3</u>		<u>2682-4-B19 (5-11)</u>	<u>7/20/15</u>	<u>10:00</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>4</u>		<u>2682-4-B20 (0-5)</u>	<u>7/20/15</u>	<u>4:20</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>5</u>		<u>2682-4-B20 (5-11)</u>	<u>7/20/15</u>	<u>4:30</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>6</u>		<u>2682-4-B21 (0-5)</u>	<u>7/20/15</u>	<u>10:20</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>7</u>		<u>2682-4-B21 (5-11)</u>	<u>7/20/15</u>	<u>10:25</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>8</u>		<u>2682-4-B22 (0-4)</u>	<u>7/20/15</u>	<u>3:50</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>9</u>		<u>2682-4-B22 Dup (0-4)</u>	<u>7/20/15</u>	<u>3:55</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>10</u>		<u>2682-4-B23 (0-5)</u>	<u>7/20/15</u>	<u>10:45</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>C. Nead</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>C. Nead</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>C. Nead</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>11:00</u>	Received By: <u>Shirley Woods</u> Company: <u>TA-CAT</u> Date: <u>7/21/15</u> Time: <u>11:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: IL TAO

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 125 Ambassador Drive
Naperville, IL 60540
Address: Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-2489
E-Mail: matt.weiss@terracon.com

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-98820

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative												Preservative Key	
Project Name				Parameter												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #															
Sampler		Lab PM															
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 29 Metals	TCLP 24 Metals	SPLP 24 Metals	pH					Comments
			Date	Time													
11		2682-4-B23 (5-11)	7/20/15	10:50	6	S	✓	✓	✓	✓	✓	✓					
12		2682-4-B25 (0-4)	7/20/15	11:10	6	S	✓	✓	✓	✓	✓	✓					
13		2682-4-B27 (0-5)	7/20/15	11:30	6	S	✓	✓	✓	✓	✓	✓					
14		2682-4-B27 (5-11)	7/20/15	11:35	6	S	✓	✓	✓	✓	✓	✓					
15		2682-4-B26 (0-5)	7/20/15	3:20	6	S	✓	✓	✓	✓	✓	✓					
16		2682-4-B26 (5-11)	7/20/15	3:30	6	S	✓	✓	✓	✓	✓	✓					
17		2682-4-B28 (0-5)	7/20/15	2:55	6	S	✓	✓	✓	✓	✓	✓					
18		2682-4-B28 (5-11)	7/20/15	3:00	6	S	✓	✓	✓	✓	✓	✓					
19		2682-4-B29 (0-5)	7/20/15	11:55	6	S	✓	✓	✓	✓	✓	✓					
20		2682-4-B29 (5-11)	7/20/15	12:05	6	S	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>1:00</u>	Received By: <u>[Signature]</u> Company: <u>TA-O&I</u> Date: <u>7/21/15</u> Time: <u>1:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key
 WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments: IL TACO

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To: MR Matt Weiss (optional)
Contact: Terrecon
Company: Terrecon
Address: 135 Ambassador Dr.
Address: Naperville, IL 60540
Phone: 630-717-4263
Fax: 630-357-9489
E-Mail: Matt.Weiss@terrecon.com

Bill To: _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-98820
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM								1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 metals	TCLP 24 metals	SPLP 24 metals	pH	Comments				
			Date	Time													
21		2682-4-B30 (0-4)	7/20/15	2:25	6	S	✓	✓	✓	✓	✓	✓					
22		2682-4-B30 Dup (0-4)	7/20/15	2:30	6	S	✓	✓	✓	✓	✓	✓					
23		2682-4-B31 (0-4)	7/20/15	12:25	6	S	✓	✓	✓	✓	✓	✓					
24		2682-5-B01 (0-1.5)	7/20/15	1:30	6	S	✓	✓	✓	✓	✓	✓					
25		2682-5-B01 Dup (0-1.5)	7/20/15	1:35	6	S	✓	✓	✓	✓	✓	✓					
26		2682-5-B02 (0-4)	7/20/15	12:45	6	S	✓	✓	✓	✓	✓	✓					
27		2682-5-B03 (0-1.5)	7/20/15	1:00	6	S	✓	✓	✓	✓	✓	✓					
28		2682-5-B04 (0-1.5)	7/20/15	1:15	6	S	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days): ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other
Requested Due Date: _____
Sample Disposal: Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>C. Kelly</u> Company: <u>Terrecon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>11:00</u>	Received By: <u>Sherrin Scott</u> Company: <u>TA-CPI</u> Date: <u>7/21/15</u> Time: <u>11:00</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: IL TACO

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98820-1

Login Number: 98820
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,3.3,2.7
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.	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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-98820-2

Client Project/Site: IDOT - Northbrook - WO 002

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

7/31/2015 2:51:34 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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6

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8

9



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	10
Client Sample Results	11
Definitions	41
Chain of Custody	42
Receipt Checklists	43

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Job ID: 500-98820-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-98820-2

Comments

No additional comments.

Receipt

The samples were received on 7/21/2015 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 2.9° C and 3.3° C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: 2682-5-B02 (0-4) (500-98820-26) and 2682-5-B03 (0-1.5) (500-98820-27). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following samples were diluted to bring the concentration of target and non-target analytes within the calibration range: 2682-5-B01 Dup (0-1.5) (500-98820-25). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	10000		12	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.34	J	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	5.3		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	33		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.27	B	0.12	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.58	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.6		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	18		0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	8.9		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	27000		5.8	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	83000		120	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	340		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.58		0.56	0.28	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.95		0.58	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	47		1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	2600		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	170		58	7.6	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.1		0.20	0.20	mg/L	1			6010B	TCLP
Arsenic	0.011	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.38	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	520		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.038	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	19		0.20	0.20	mg/L	1			6010B	SPLP East
Barium	0.14	J	0.50	0.050	mg/L	1			6010B	SPLP East
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.027		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.040		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.016		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	15		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.024	J	0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	8.6		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.14		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.026		0.018	0.0064	mg/Kg	1		☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5) (Continued)

Lab Sample ID: 500-98820-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.0079		0.0055	0.0042	mg/Kg	1		☼	8260B	Total/NA
Aluminum	9000		11	2.8	mg/Kg	1		☼	6010B	Total/NA
Antimony	0.33	J	1.1	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	5.4		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	39		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.31	B	0.11	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	13		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	8.2		0.29	0.064	mg/Kg	1		☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	12		2.9	1.4	mg/Kg	10		☼	6010B	Total/NA
Magnesium	27000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	150000		110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	370		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	21		0.57	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.58		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.29	0.083	mg/Kg	1		☼	6010B	Total/NA
Zinc	41		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	170		57	7.5	mg/Kg	1		☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.45	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	550		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.029	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	25		0.20	0.20	mg/L	1			6010B	SPLP East
Barium	0.17	J	0.50	0.050	mg/L	1			6010B	SPLP East
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	45		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.050		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	28		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.15		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.032		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	12		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.045		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.12		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.025		0.019	0.0067	mg/Kg	1		☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4) (Continued)

Lab Sample ID: 500-98820-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11	2.8	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.32	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	510		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	930		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Aluminum	0.38		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	590		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	78		0.20	0.20	mg/L	1		6010B	SPLP East
Arsenic	0.025	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0044		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	110		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.046		0.038	0.038	mg/L	5		6010B	SPLP East
Magnesium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.60		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.32		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0025		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.018	J	0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.90		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.016		0.0051	0.0040	mg/Kg	1	☼	☼	8260B	Total/NA
Benzo[a]anthracene	0.0089	J	0.037	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0069	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.0084	J	0.037	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.015	J	0.037	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Aluminum	13000		11	2.8	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	7.3		0.57	0.26	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	48		0.57	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.80		0.23	0.049	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.26	B	0.11	0.033	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	17		0.57	0.097	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	27		0.57	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	22000		11	4.4	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	20000		5.7	2.3	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	30000		11	3.6	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	530		0.57	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	36		0.57	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.58		0.58	0.29	mg/Kg	1	☼	☼	6010B	Total/NA
Thallium	1.4		0.57	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	23		0.28	0.083	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	62		1.1	0.36	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	2200		28	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	2200		57	7.5	mg/Kg	1	☼	☼	6010B	Total/NA
Aluminum	1.7		0.20	0.20	mg/L	1			6010B	TCLP
Barium	0.31	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	270		2.5	0.50	mg/L	1			6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.037	J	0.10	0.020	mg/L	1			6010B	TCLP
Aluminum	190		0.20	0.20	mg/L	1			6010B	SPLP East
Arsenic	0.059		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0047	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.24		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.10		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.29		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.19		0.038	0.038	mg/L	5			6010B	SPLP East
Magnesium	49		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.41		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	36		2.5	0.50	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5) (Continued)

Lab Sample ID: 500-98820-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.75		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0050		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.014	J	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.025	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.043		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.019	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.036	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Aluminum	12000		12	2.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3100		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2900		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.1		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1.3		0.20	0.20	mg/L	1		6010B	TCLP
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	88		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13		0.10	0.020	mg/L	1		6010B	TCLP
Aluminum	8.0		0.20	0.20	mg/L	1		6010B	SPLP East
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	12		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5) (Continued)

Lab Sample ID: 500-98820-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	6.6		0.20	0.20	mg/L	1		6010B	SPLP East
Magnesium	6.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	2.5		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.11		0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.044		0.020	0.0071	mg/Kg	1	*	7471B	Total/NA
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-98820-24	2682-5-B01 (0-1.5)	Solid	07/20/15 13:30	07/21/15 11:00
500-98820-25	2682-5-B01 Dup (0-1.5)	Solid	07/20/15 13:35	07/21/15 11:00
500-98820-26	2682-5-B02 (0-4)	Solid	07/20/15 12:45	07/21/15 11:00
500-98820-27	2682-5-B03 (0-1.5)	Solid	07/20/15 13:00	07/21/15 11:00
500-98820-28	2682-5-B04 (0-1.5)	Solid	07/20/15 13:15	07/21/15 11:00



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:44	1
Arsenic	0.011	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Barium	0.38	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:44	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:44	1
Calcium	520		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:44	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Copper	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:44	1
Magnesium	42		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:44	1
Manganese	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Potassium	1.6	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:44	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:44	1
Zinc	0.038	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:52	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Barium	0.14	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:52	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:52	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:52	1
Chromium	0.027		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Copper	0.040		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Iron	18		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:52	1
Lead	0.016		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 16:52	1
Magnesium	15		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:52	1
Manganese	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Nickel	0.024	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Potassium	8.6		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:52	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Vanadium	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:52	1
Zinc	0.14		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:52	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		07/26/15 17:40	07/27/15 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU	-		07/23/15 15:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0034	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/21/15 13:45	07/24/15 16:43	1
Dibromofluoromethane	106		75 - 120	07/21/15 13:45	07/24/15 16:43	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/24/15 16:43	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/24/15 16:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	42		25 - 119	07/24/15 07:23	07/29/15 04:14	1
2-Fluorophenol	41		25 - 110	07/24/15 07:23	07/29/15 04:14	1
Nitrobenzene-d5	49		25 - 115	07/24/15 07:23	07/29/15 04:14	1
Phenol-d5	49		31 - 110	07/24/15 07:23	07/29/15 04:14	1
Terphenyl-d14	61		36 - 134	07/24/15 07:23	07/29/15 04:14	1
2,4,6-Tribromophenol	44		35 - 137	07/24/15 07:23	07/29/15 04:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		12	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Arsenic	5.3		0.58	0.27	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Barium	33		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Cadmium	0.27	B	0.12	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Chromium	15		0.58	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Cobalt	7.6		0.29	0.065	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Copper	18		0.58	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Iron	17000		12	4.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Lead	8.9		0.29	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 01:02	1
Magnesium	27000		5.8	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Calcium	83000		120	37	mg/Kg	☼	07/24/15 10:00	07/27/15 01:08	10
Manganese	340		0.58	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Nickel	23		0.58	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Selenium	0.58		0.56	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 23:06	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Thallium	0.95		0.58	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 01:02	1
Vanadium	19		0.29	0.084	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Zinc	47		1.2	0.37	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Potassium	2600		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1
Sodium	170		58	7.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 13:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 (0-1.5)

Lab Sample ID: 500-98820-24

Date Collected: 07/20/15 13:30

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 18:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:49	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Barium	0.45	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:49	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:49	1
Calcium	550		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:49	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Copper	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:49	1
Magnesium	43		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:49	1
Manganese	0.23		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Potassium	1.8	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:49	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:49	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:49	1
Zinc	0.029	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:56	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Barium	0.17	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 16:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 16:56	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 16:56	1
Calcium	45		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:56	1
Chromium	0.035		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Copper	0.050		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Iron	28		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 16:56	1
Lead	0.020		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 16:56	1
Magnesium	20		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:56	1
Manganese	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Nickel	0.032		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Potassium	12		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 16:56	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 16:56	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Vanadium	0.045		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 16:56	1
Zinc	0.12		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 16:56	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		07/26/15 17:40	07/27/15 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU	-		07/23/15 15:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0079		0.0055	0.0042	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/21/15 13:45	07/24/15 17:07	1
Dibromofluoromethane	105		75 - 120	07/21/15 13:45	07/24/15 17:07	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/21/15 13:45	07/24/15 17:07	1
Toluene-d8 (Surr)	111		75 - 122	07/21/15 13:45	07/24/15 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	07/24/15 07:23	07/29/15 04:38	1
2-Fluorophenol	66		25 - 110	07/24/15 07:23	07/29/15 04:38	1
Nitrobenzene-d5	69		25 - 115	07/24/15 07:23	07/29/15 04:38	1
Phenol-d5	73		31 - 110	07/24/15 07:23	07/29/15 04:38	1
Terphenyl-d14	77		36 - 134	07/24/15 07:23	07/29/15 04:38	1
2,4,6-Tribromophenol	39		35 - 137	07/24/15 07:23	07/29/15 04:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Arsenic	5.4		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Barium	39		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Beryllium	0.60		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Cadmium	0.31	B	0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Chromium	13		0.57	0.098	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Cobalt	8.2		0.29	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Copper	20		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Iron	16000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Lead	12		2.9	1.4	mg/Kg	☼	07/24/15 10:00	07/27/15 01:38	10
Magnesium	27000		5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Calcium	150000		110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 01:38	10
Manganese	370		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Nickel	21		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Selenium	0.58		0.54	0.27	mg/Kg	☼	07/26/15 20:19	07/27/15 23:11	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Thallium	<5.7		5.7	2.8	mg/Kg	☼	07/24/15 10:00	07/27/15 01:38	10
Vanadium	18		0.29	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Zinc	41		1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Potassium	2100		29	4.7	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1
Sodium	170		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 13:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B01 Dup (0-1.5)

Lab Sample ID: 500-98820-25

Date Collected: 07/20/15 13:35

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 19:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.38		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:55	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Barium	0.25	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:55	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:55	1
Calcium	590		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:55	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Copper	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:55	1
Magnesium	31		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:55	1
Manganese	1.0		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Potassium	1.3	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:55	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:55	1
Zinc	0.021	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	78		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:00	1
Arsenic	0.025	J	0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Barium	0.31	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:00	1
Beryllium	0.0044		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:00	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:00	1
Calcium	40		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:00	1
Chromium	0.11		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Cobalt	0.024	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Copper	0.15		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Iron	110		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:00	1
Lead	0.046		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:32	5
Magnesium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:00	1
Manganese	0.60		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Nickel	0.13		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Potassium	24		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Vanadium	0.12		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:00	1
Zinc	0.32		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:00	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		07/26/15 17:40	07/27/15 19:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0025		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.90		0.200	0.200	SU	-		07/23/15 15:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0038	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/21/15 13:45	07/24/15 17:31	1
Dibromofluoromethane	102		75 - 120	07/21/15 13:45	07/24/15 17:31	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/21/15 13:45	07/24/15 17:31	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/24/15 17:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	07/24/15 07:23	07/29/15 05:02	1
2-Fluorophenol	84		25 - 110	07/24/15 07:23	07/29/15 05:02	1
Nitrobenzene-d5	85		25 - 115	07/24/15 07:23	07/29/15 05:02	1
Phenol-d5	93		31 - 110	07/24/15 07:23	07/29/15 05:02	1
Terphenyl-d14	86		36 - 134	07/24/15 07:23	07/29/15 05:02	1
2,4,6-Tribromophenol	45		35 - 137	07/24/15 07:23	07/29/15 05:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Antimony	0.32	J	1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Arsenic	6.1		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Barium	33		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Beryllium	0.70		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Cadmium	0.26	B	0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Chromium	15		0.57	0.098	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Cobalt	10		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Copper	22		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Iron	18000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Lead	10		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 01:45	1
Magnesium	28000		5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Calcium	86000		110	37	mg/Kg	☼	07/24/15 10:00	07/27/15 01:51	10
Manganese	510		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Nickel	26		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Selenium	0.51	J	0.57	0.28	mg/Kg	☼	07/26/15 20:19	07/27/15 23:24	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Thallium	1.1		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 01:45	1
Vanadium	20		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Zinc	49		1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Potassium	2200		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1
Sodium	930		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0067	mg/Kg	☼	07/27/15 18:45	07/28/15 13:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B02 (0-4)

Lab Sample ID: 500-98820-26

Date Collected: 07/20/15 12:45

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 85.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	07/27/15 16:30	07/27/15 19:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.7		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:00	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Barium	0.31	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:00	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:00	1
Calcium	270		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Copper	0.018	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:00	1
Magnesium	87		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:00	1
Manganese	1.1		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Potassium	1.7	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:00	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:00	1
Zinc	0.037	J	0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	190		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:04	1
Arsenic	0.059		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Barium	0.91		0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:04	1
Beryllium	0.011		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:04	1
Cadmium	0.0047	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:04	1
Calcium	35		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:04	1
Chromium	0.24		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Cobalt	0.10		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Copper	0.29		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Iron	250		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:04	1
Lead	0.19		0.038	0.038	mg/L		07/26/15 17:40	07/28/15 14:36	5
Magnesium	49		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:04	1
Manganese	1.6		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Nickel	0.41		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Potassium	36		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:04	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Vanadium	0.27		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:04	1
Zinc	0.75		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:04	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		07/26/15 17:40	07/27/15 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:49	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0050		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU	-		07/23/15 15:29	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0051	0.0040	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	07/21/15 13:45	07/24/15 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/21/15 13:45	07/24/15 17:55	1
Dibromofluoromethane	109		75 - 120	07/21/15 13:45	07/24/15 17:55	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/21/15 13:45	07/24/15 17:55	1
Toluene-d8 (Surr)	115		75 - 122	07/21/15 13:45	07/24/15 17:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Benzo[a]anthracene	0.0089	J	0.037	0.0050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Fluoranthene	0.016	J	0.037	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Phenanthrene	0.0084	J	0.037	0.0052	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
Pyrene	0.015	J	0.037	0.0074	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	07/24/15 07:23	07/29/15 05:26	1
2-Fluorophenol	76		25 - 110	07/24/15 07:23	07/29/15 05:26	1
Nitrobenzene-d5	79		25 - 115	07/24/15 07:23	07/29/15 05:26	1
Phenol-d5	82		31 - 110	07/24/15 07:23	07/29/15 05:26	1
Terphenyl-d14	90		36 - 134	07/24/15 07:23	07/29/15 05:26	1
2,4,6-Tribromophenol	60		35 - 137	07/24/15 07:23	07/29/15 05:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		11	2.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Antimony	<1.1		1.1	0.24	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Arsenic	7.3		0.57	0.26	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Barium	48		0.57	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Beryllium	0.80		0.23	0.049	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Cadmium	0.26	B	0.11	0.033	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Chromium	17		0.57	0.097	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Cobalt	13		0.28	0.064	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Copper	27		0.57	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Iron	22000		11	4.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Lead	13		0.28	0.14	mg/Kg	☼	07/24/15 10:00	07/27/15 01:58	1
Magnesium	20000		5.7	2.3	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Calcium	30000		11	3.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Manganese	530		0.57	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Nickel	36		0.57	0.15	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Selenium	0.58		0.58	0.29	mg/Kg	☼	07/26/15 20:19	07/27/15 23:29	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Thallium	1.4		0.57	0.28	mg/Kg	☼	07/24/15 10:00	07/27/15 01:58	1
Vanadium	23		0.28	0.083	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Zinc	62		1.1	0.36	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Potassium	2200		28	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1
Sodium	2200		57	7.5	mg/Kg	☼	07/24/15 10:00	07/25/15 04:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0064	mg/Kg	☼	07/27/15 18:45	07/28/15 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B03 (0-1.5)

Lab Sample ID: 500-98820-27

Date Collected: 07/20/15 13:00

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 84.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	07/27/15 16:30	07/27/15 19:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:04	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Barium	0.20	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 18:04	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 18:04	1
Calcium	88		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:04	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Copper	0.013	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Iron	<0.20		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 18:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 18:04	1
Magnesium	37		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:04	1
Manganese	0.18		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Potassium	1.4	J	2.5	0.50	mg/L		07/26/15 17:40	07/27/15 18:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 18:04	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Vanadium	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 18:04	1
Zinc	0.13		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 18:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.0		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:09	1
Arsenic	<0.050		0.050	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Barium	0.10	J	0.50	0.050	mg/L		07/26/15 17:40	07/27/15 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/15 17:40	07/27/15 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/15 17:40	07/27/15 17:09	1
Calcium	12		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:09	1
Chromium	0.011	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Cobalt	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Copper	0.021	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Iron	6.6		0.20	0.20	mg/L		07/26/15 17:40	07/27/15 17:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/26/15 17:40	07/27/15 17:09	1
Magnesium	6.4		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:09	1
Manganese	0.038		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Potassium	2.5		2.5	0.50	mg/L		07/26/15 17:40	07/27/15 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		07/26/15 17:40	07/27/15 17:09	1
Silver	<0.025		0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Vanadium	0.016	J	0.025	0.010	mg/L		07/26/15 17:40	07/27/15 17:09	1
Zinc	0.11		0.10	0.020	mg/L		07/26/15 17:40	07/27/15 17:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 19:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/26/15 17:40	07/27/15 19:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/26/15 17:40	07/27/15 18:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Method: 6020A - Metals (ICP/MS) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L	-	07/26/15 17:40	07/27/15 18:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/28/15 16:30	07/29/15 11:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	07/27/15 15:15	07/28/15 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU	-		07/23/15 15:34	1



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0056		0.0056	0.0043	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Bromodichloromethane	<0.0056		0.0056	0.00095	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Carbon disulfide	<0.0056		0.0056	0.0021	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Chloroethane	<0.0056		0.0056	0.0024	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Dibromochloromethane	<0.0056		0.0056	0.00065	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,1-Dichloroethane	<0.0056		0.0056	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,3-Dichloropropane, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00089	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Toluene	<0.0056		0.0056	0.0020	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	07/21/15 13:45	07/24/15 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/21/15 13:45	07/24/15 18:19	1
Dibromofluoromethane	110		75 - 120	07/21/15 13:45	07/24/15 18:19	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/21/15 13:45	07/24/15 18:19	1
Toluene-d8 (Surr)	114		75 - 122	07/21/15 13:45	07/24/15 18:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Benzo[k]fluoranthene	0.017	J	0.039	0.012	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Chrysene	0.025	J	0.039	0.011	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Fluoranthene	0.043		0.039	0.0073	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.039	0.010	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Phenanthrene	0.019	J	0.039	0.0055	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
Pyrene	0.036	J	0.039	0.0078	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/24/15 07:23	07/29/15 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	07/24/15 07:23	07/29/15 05:50	1
2-Fluorophenol	84		25 - 110	07/24/15 07:23	07/29/15 05:50	1
Nitrobenzene-d5	77		25 - 115	07/24/15 07:23	07/29/15 05:50	1
Phenol-d5	94		31 - 110	07/24/15 07:23	07/29/15 05:50	1
Terphenyl-d14	95		36 - 134	07/24/15 07:23	07/29/15 05:50	1
2,4,6-Tribromophenol	69		35 - 137	07/24/15 07:23	07/29/15 05:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12	2.9	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Antimony	<1.2		1.2	0.25	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Arsenic	5.7		0.60	0.28	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Barium	64		0.60	0.11	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Beryllium	0.66		0.24	0.052	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Cadmium	0.29	B	0.12	0.034	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Chromium	16		0.60	0.10	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Cobalt	10		0.30	0.067	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Copper	16		0.60	0.13	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Iron	18000		12	4.6	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Lead	15		0.30	0.15	mg/Kg	☼	07/24/15 10:00	07/27/15 02:05	1
Magnesium	3100		6.0	2.4	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Calcium	2900		12	3.8	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Manganese	520		0.60	0.12	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Nickel	19		0.60	0.16	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Selenium	0.88		0.58	0.29	mg/Kg	☼	07/26/15 20:19	07/27/15 23:34	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Thallium	1.1		0.60	0.29	mg/Kg	☼	07/24/15 10:00	07/27/15 02:05	1
Vanadium	28		0.30	0.087	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Zinc	54		1.2	0.38	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Potassium	1100		30	4.9	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1
Sodium	270		60	7.9	mg/Kg	☼	07/24/15 10:00	07/25/15 04:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0071	mg/Kg	☼	07/27/15 18:45	07/28/15 13:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Client Sample ID: 2682-5-B04 (0-1.5)

Lab Sample ID: 500-98820-28

Date Collected: 07/20/15 13:15

Matrix: Solid

Date Received: 07/21/15 11:00

Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	07/27/15 16:30	07/27/15 19:00	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Northbrook - WO 002

TestAmerica Job ID: 500-98820-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To: MR Matt Weiss (optional)
Contact: MR Matt Weiss
Company: Terracon
Address: 135 Ambassador Dr.
Address: Naperville, IL 60540
Phone: 630-717-1263
Fax: 630-357-9489
E-Mail: Matt.Weiss@terracon.com

Bill To: _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-98820
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative									Preservative Key	
Project Name		11157102		Parameter									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #												
Sampler		Lab PM												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 Metals	TCLP 24 Metals	SPLP 24 Metals	pH	Comments	
			Date	Time										
21		2682-4-B30 (O-4)	7/20/15	2:25	6	S	✓	✓	✓	✓	✓	✓		
22		2682-4-B30 Dup (O-4)	7/20/15	2:30	6	S	✓	✓	✓	✓	✓	✓		
23		2682-4-B31 (O-4)	7/20/15	12:25	6	S	✓	✓	✓	✓	✓	✓		
24		2682-5-B01 (O-1.5)	7/20/15	1:30	6	S	✓	✓	✓	✓	✓	✓		
25		2682-5-B01 Dup (O-1.5)	7/20/15	1:35	6	S	✓	✓	✓	✓	✓	✓		
26		2682-5-B02 (O-4)	7/20/15	12:45	6	S	✓	✓	✓	✓	✓	✓		
27		2682-5-B03 (O-1.5)	7/20/15	1:00	6	S	✓	✓	✓	✓	✓	✓		
28		2682-5-B04 (O-1.5)	7/20/15	1:15	6	S	✓	✓	✓	✓	✓	✓		

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>C. Gray</u> Company: <u>Terracon</u> Date: <u>7/21/15</u> Time: <u>9:43</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>9:43</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>7/21/15</u> Time: <u>11:00</u>	Received By: <u>Sherrin Scott</u> Company: <u>TA-CAPL</u> Date: <u>7/21/15</u> Time: <u>11:00</u>

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key
WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WL - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments: IL TACO

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-98820-2

Login Number: 98820
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,3.3,2.7
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

