



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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 104+16 to 106+25 (ISGS Site 2645-4)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-4.
See Exhibits 6, 6A, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-1. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

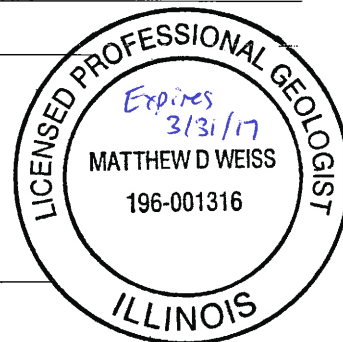
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

8/1/16
Date:



Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-4)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-4-B01 (0-5)	2645-4-B02 (0-5)	2645-4-B02 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
Chicago	MSAs							
Semivolatile Organic Analytical Parameters								
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0069	<0.039	<0.040
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0094	<0.039	<0.040
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.014	<0.039	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.014	<0.039	<0.040
Pyrene	mg/kg	1.9	3.0	2300		0.014	<0.039	<0.040
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		8.8	9	9.3
Barium	mg/kg	---	110	1500		82	74	81
Cadmium	mg/kg	---	0.6	5.2		<0.12	<0.11	<0.12
Chromium, total	mg/kg	---	16.2	21		17	15	16
Lead	mg/kg	---	36	107		19	18	19
Mercury	mg/kg	---	0.06	0.1		0.026	0.033	0.041
Selenium	mg/kg	---	0.48	1.3		<0.61	0.52	<0.59
Silver	mg/kg	---	0.55	4.4		<0.29	<0.29	<0.30
Antimony	mg/kg	---	4.0	5		<1.2	<1.1	<1.2
Beryllium	mg/kg	---	0.59	22		0.71	0.68	0.68
Calcium	mg/kg	---	9,300	---		24000	30000	20000
Cobalt	mg/kg	---	8.9	20		14	13	13
Copper	mg/kg	---	19.6	2900		21	21	22
Cyanide	mg/kg	---	0.51	---		<0.61	<0.57	<0.59
Iron	mg/kg	---	15,900	15000		21000	20000	22000
Magnesium	mg/kg	---	4,820	325000		17000	19000	15000
Manganese	mg/kg	---	636	630		460	580	610
Nickel	mg/kg	---	18	100		34	30	26
Potassium	mg/kg	---	1,268	---		1700	1500	1200
Sodium	mg/kg	---	130	---		520	430	480
Thallium	mg/kg	---	0.32	2.6		0.6	<0.55	0.36
Vanadium	mg/kg	---	25.2	550		23	23	27
Zinc	mg/kg	---	95	5100		71	73	72
pH			6.25	9		8.42	8.46	8.31
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.9	0.83	0.54
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-4)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-4-B01 (0-5)	2645-4-B02 (0-5)	2645-4-B02 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
		Chicago	MSAs					
Inorganic Analytical Parameters (TCLP)								
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.58	0.57	0.59
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		410	380	280
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		----	----	----
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		130	140	150
Manganese, TCLP	mg/L	---	---	---		0.41	0.23	0.36
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		2.3	1.6	2.5
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	---	---	---		0.73	0.88	0.37

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: 500-106258-1

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/22/2016 2:55:05 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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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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4

5

6

7

8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	6
Client Sample Results	7
Definitions	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Job ID: 500-106258-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-1

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319407 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-4-B01 (0-5) (500-106258-1), 2645-4-B02 (0-5) (500-106258-2) and 2645-4-B02 (0-5) Dup (500-106258-3).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-319407 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: (500-106258-F-1-I MS) and (500-106258-F-1-J MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) for batch preparation batch 500-319511 and analytical batch 500-319624 recovered outside control limits for the following analytes: 4-Chloroaniline. This analyte was biased high in the LCS and was 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.

Metals

Method(s) 6010B: The method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B01 (0-5)

Lab Sample ID: 500-106258-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0069	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0094	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.014	J F1	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J F1	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.8		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.60	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700	B	30	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.73	F1 B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-4-B02 (0-5)

Lab Sample ID: 500-106258-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	580	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.35	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5) (Continued)

Lab Sample ID: 500-106258-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1500	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.88	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-4-B02 (0-5) Dup

Lab Sample ID: 500-106258-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	610	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.37	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.31		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-1	2645-4-B01 (0-5)	Solid	01/12/16 14:15	01/13/16 10:55
500-106258-2	2645-4-B02 (0-5)	Solid	01/12/16 13:55	01/13/16 10:55
500-106258-3	2645-4-B02 (0-5) Dup	Solid	01/12/16 14:00	01/13/16 10:55

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B01 (0-5)

Lab Sample ID: 500-106258-1

Date Collected: 01/12/16 14:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Bromodichloromethane	<0.0045		0.0045	0.00075	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Carbon tetrachloride	<0.0045		0.0045	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Toluene	<0.0045		0.0045	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/13/16 13:05	01/14/16 12:26	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/14/16 12:26	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/14/16 12:26	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/14/16 12:26	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	☼	01/14/16 17:22	01/15/16 15:24	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Benzo[a]anthracene	0.0069	J	0.040	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B01 (0-5)

Lab Sample ID: 500-106258-1

Date Collected: 01/12/16 14:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0094	J	0.040	0.0077	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Benzo[b]fluoranthene	0.014	J F1	0.040	0.0086	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.076	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4-Dinitrophenol	<0.80	F1	0.80	0.70	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Fluoranthene	0.014	J	0.040	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B01 (0-5)

Lab Sample ID: 500-106258-1

Date Collected: 01/12/16 14:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80	F2	0.80	0.38	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
Pyrene	0.014	J F1	0.040	0.0079	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4,5-Trichlorophenol	<0.40	F2	0.40	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/14/16 17:22	01/15/16 15:24	1
2-Fluorophenol	73		25 - 110	01/14/16 17:22	01/15/16 15:24	1
Nitrobenzene-d5	75		25 - 115	01/14/16 17:22	01/15/16 15:24	1
Phenol-d5	69		31 - 110	01/14/16 17:22	01/15/16 15:24	1
Terphenyl-d14	100		36 - 134	01/14/16 17:22	01/15/16 15:24	1
2,4,6-Tribromophenol	45		35 - 137	01/14/16 17:22	01/15/16 15:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Arsenic	8.8		0.61	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Barium	82		0.61	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Beryllium	0.71		0.24	0.053	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Chromium	17	B	0.61	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Cobalt	14		0.30	0.069	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Copper	21		0.61	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Iron	21000	B	12	4.7	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Lead	19		0.30	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Magnesium	17000		6.1	2.5	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Calcium	24000	B	12	3.9	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Manganese	460	B	0.61	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Nickel	34		0.61	0.16	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/16/16 11:11	01/18/16 21:23	1
Thallium	0.60	J	0.61	0.30	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Vanadium	23		0.30	0.089	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Zinc	71		1.2	0.38	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Potassium	1700	B	30	5.0	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1
Sodium	520		61	8.0	mg/Kg	☼	01/14/16 09:03	01/14/16 16:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Barium	0.58		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 18:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 18:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B01 (0-5)

Lab Sample ID: 500-106258-1

Date Collected: 01/12/16 14:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 18:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 18:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 18:01	1
Magnesium	130		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:01	1
Manganese	0.41		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Potassium	2.3	J F1	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 18:01	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:01	1
Zinc	0.73	F1 B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.90		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 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		01/17/16 17:00	01/19/16 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:10	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		01/18/16 13:30	01/19/16 14:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0065	mg/Kg	☼	01/14/16 15:45	01/15/16 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	01/19/16 10:00	01/19/16 14:12	1
pH	8.42		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5)

Lab Sample ID: 500-106258-2

Date Collected: 01/12/16 13:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/13/16 13:05	01/14/16 12:51	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/14/16 12:51	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/13/16 13:05	01/14/16 12:51	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/14/16 12:51	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	☼	01/14/16 17:22	01/15/16 15:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5)

Lab Sample ID: 500-106258-2

Date Collected: 01/12/16 13:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.1

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	☼	01/14/16 17:22	01/15/16 15:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4-Chloroaniline	<0.79	*	0.79	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5)

Lab Sample ID: 500-106258-2

Date Collected: 01/12/16 13:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.1

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	☼	01/14/16 17:22	01/15/16 15:49	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	01/14/16 17:22	01/15/16 15:49	1
2-Fluorophenol	81		25 - 110	01/14/16 17:22	01/15/16 15:49	1
Nitrobenzene-d5	82		25 - 115	01/14/16 17:22	01/15/16 15:49	1
Phenol-d5	66		31 - 110	01/14/16 17:22	01/15/16 15:49	1
Terphenyl-d14	105		36 - 134	01/14/16 17:22	01/15/16 15:49	1
2,4,6-Tribromophenol	47		35 - 137	01/14/16 17:22	01/15/16 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Arsenic	9.0		0.55	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Barium	74		0.55	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Beryllium	0.68		0.22	0.048	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Chromium	15 B		0.55	0.095	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Cobalt	13		0.28	0.062	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Copper	21		0.55	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Iron	20000 B		11	4.3	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Lead	18		0.28	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Magnesium	19000		5.5	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Calcium	30000 B		11	3.6	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Manganese	580 B		0.55	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Nickel	30		0.55	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Selenium	0.52 J		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/16/16 11:11	01/18/16 21:28	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Vanadium	23		0.28	0.081	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Zinc	73		1.1	0.35	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Potassium	1500 B		28	4.5	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1
Sodium	430		55	7.3	mg/Kg	☼	01/14/16 09:03	01/14/16 17:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Barium	0.57		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 18:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 18:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5)

Lab Sample ID: 500-106258-2

Date Collected: 01/12/16 13:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 18:44	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 18:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 18:44	1
Magnesium	140		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:44	1
Manganese	0.23		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Potassium	1.6 J		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 18:44	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:44	1
Zinc	0.88 B		0.50	0.020	mg/L		01/17/16 17:00	01/18/16 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.83		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 01:48	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		01/17/16 17:00	01/19/16 20:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:39	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		01/18/16 13:30	01/19/16 14:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0066	mg/Kg	☼	01/14/16 15:45	01/15/16 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:12	1
pH	8.46		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5) Dup

Lab Sample ID: 500-106258-3

Date Collected: 01/12/16 14:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Vinyl acetate	<0.0044 *		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/13/16 13:05	01/14/16 13:17	1
Dibromofluoromethane	110		75 - 120	01/13/16 13:05	01/14/16 13:17	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	01/13/16 13:05	01/14/16 13:17	1
Toluene-d8 (Surr)	110		75 - 122	01/13/16 13:05	01/14/16 13:17	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	☼	01/14/16 17:22	01/15/16 16:13	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5) Dup

Lab Sample ID: 500-106258-3

Date Collected: 01/12/16 14:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.040		0.040	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4-Chloroaniline	<0.81	*	0.81	0.19	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5) Dup

Lab Sample ID: 500-106258-3

Date Collected: 01/12/16 14:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.81		0.81	0.38	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	01/14/16 17:22	01/15/16 16:13	1
2-Fluorophenol	78		25 - 110	01/14/16 17:22	01/15/16 16:13	1
Nitrobenzene-d5	79		25 - 115	01/14/16 17:22	01/15/16 16:13	1
Phenol-d5	62		31 - 110	01/14/16 17:22	01/15/16 16:13	1
Terphenyl-d14	111		36 - 134	01/14/16 17:22	01/15/16 16:13	1
2,4,6-Tribromophenol	50		35 - 137	01/14/16 17:22	01/15/16 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Arsenic	9.3		0.59	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Barium	81		0.59	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Beryllium	0.68		0.24	0.051	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Chromium	16 B		0.59	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Cobalt	13		0.29	0.067	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Copper	22		0.59	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Iron	22000 B		12	4.5	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Lead	19		0.29	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Magnesium	15000		5.9	2.4	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Calcium	20000 B		12	3.8	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Manganese	610 B		0.59	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Nickel	26		0.59	0.16	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	01/16/16 11:11	01/18/16 21:33	1
Thallium	0.36 J		0.59	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Vanadium	27		0.29	0.086	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Zinc	72		1.2	0.37	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Potassium	1200 B		29	4.8	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1
Sodium	480		59	7.8	mg/Kg	☼	01/14/16 09:03	01/14/16 17:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Barium	0.59		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 18:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 18:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 18:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Client Sample ID: 2645-4-B02 (0-5) Dup

Lab Sample ID: 500-106258-3

Date Collected: 01/12/16 14:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 18:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 18:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 18:50	1
Magnesium	150		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:50	1
Manganese	0.36		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Potassium	2.5		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 18:50	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:50	1
Zinc	0.37	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 20:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 14:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0063	mg/Kg	☼	01/14/16 15:45	01/15/16 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:12	1
pH	8.31		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD 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.
X	Surrogate is outside 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.
F1	MS and/or MSD Recovery 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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-1

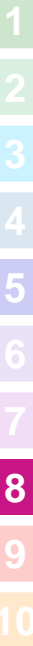
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENT!

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5



500-106258 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106258
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 27.3/24

Client		Client Project #		Preservative		Parameter								Preservative Key	
		<u>1157112</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											
Project Location/State		Lab Project #		Parameter											
<u>Bartlett, IL</u>															
Sampler		Lab PM		Parameter											
<u>CTK</u>															
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics			Comments
			Date	Time											
<u>1</u>		<u>2645-4-Bo1 (0-5)</u>	<u>1/21/16</u>	<u>2:15</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>HOLD SPLP Analysis</u>
<u>2</u>		<u>2645-4-Bo2 (0-5)</u>	<u>1/21/16</u>	<u>1:55</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>3</u>		<u>2645-4-Bo2 Dup (0-5)</u>	<u>1/21/16</u>	<u>2:00</u>	<u>S</u>		<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

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>1/21/16</u>	Time <u>5:00</u>	Received By <u>Jim Timman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>7:00 AM</u>
Relinquished By <u>Jim Timman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>9:15 AM</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/13/16</u>	Time <u>0915</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/13/16</u>	Time <u>1055</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/13/16</u>	Time <u>1055</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: Meet IL TACO Requirements, and please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-1

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 106+25 to 108+10 (ISGS Site 2645-5)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-5.
See Exhibits 6, 6A, and Table 3 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-2. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

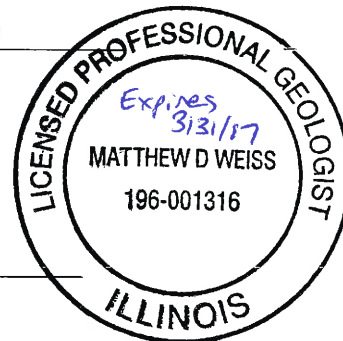
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

Matthew
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/1/16
Date:



Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-5)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-5-B01 (0-1.9)	2645-5-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		<0.037	0.032
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.12
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.07
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.12
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	0.017
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.045
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.11
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.23
Fluorene	mg/kg	0.1	0.18	560		<0.037	0.0052
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	0.022
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.11
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.21
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.3	8.6
Barium	mg/kg	---	110	1500		46	51
Cadmium	mg/kg	---	0.6	5.2		0.067	0.12
Chromium, total	mg/kg	---	16.2	21		14	12
Lead	mg/kg	---	36	107		14	13
Mercury	mg/kg	---	0.06	0.1		0.019	0.021
Selenium	mg/kg	---	0.48	1.3		<0.54	0.27
Silver	mg/kg	---	0.55	4.4		<0.26	<0.26
Antimony	mg/kg	---	4.0	5		<1.1	<1.0
Beryllium	mg/kg	---	0.59	22		0.57	0.51
Calcium	mg/kg	---	9,300	---		87000	100000
Cobalt	mg/kg	---	8.9	20		12	11
Copper	mg/kg	---	19.6	2900		23	23
Cyanide	mg/kg	---	0.51	---		<0.55	<0.53
Iron	mg/kg	---	15,900	15000		18000	18000
Magnesium	mg/kg	---	4,820	325000		37000	40000
Manganese	mg/kg	---	636	630		390	450
Nickel	mg/kg	---	18	100		29	25
Potassium	mg/kg	---	1,268	---		2000	1800
Sodium	mg/kg	---	130	---		240	400
Thallium	mg/kg	---	0.32	2.6		<0.54	<0.51
Vanadium	mg/kg	---	25.2	550		18	16
Zinc	mg/kg	---	95	5100		68	71
pH			6.25	9		8.05	8.4
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.054	0.16
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-5)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-5-B01 (0-1.9)	2645-5-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.46	0.57
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		510	400
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		67	130
Manganese,TCLP	mg/L	---	---	---		0.69	1.1
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		3.5	2.7
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.4	0.063

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: 500-106258-2

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/22/2016 2:56:15 PM

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LINKS

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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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2

3

4

5

6

7

8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	6
Client Sample Results	7
Definitions	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Job ID: 500-106258-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-2

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319407 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-5-B01 (0-1.9) (500-106258-4) and 2645-5-B02 (0-1.9) (500-106258-5).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-319407 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-5-B01 (0-1.9) (500-106258-4), 2645-5-B02 (0-1.9) (500-106258-5), (500-106258-F-1-I MS) and (500-106258-F-1-J MSD). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B01 (0-1.9)

Lab Sample ID: 500-106258-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.067	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	390	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.054		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.05		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-5-B02 (0-1.9)

Lab Sample ID: 500-106258-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.032	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.070		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.045		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.23		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0052	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.21		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	10	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B02 (0-1.9) (Continued)

Lab Sample ID: 500-106258-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	450	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800	B	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.063	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-4	2645-5-B01 (0-1.9)	Solid	01/12/16 13:35	01/13/16 10:55
500-106258-5	2645-5-B02 (0-1.9)	Solid	01/12/16 13:20	01/13/16 10:55

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B01 (0-1.9)

Lab Sample ID: 500-106258-4

Date Collected: 01/12/16 13:35

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Vinyl acetate	<0.0049	*	0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/13/16 13:05	01/14/16 13:42	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/14/16 13:42	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/14/16 13:42	1
Toluene-d8 (Surr)	111		75 - 122	01/13/16 13:05	01/14/16 13:42	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	☼	01/14/16 17:22	01/15/16 16:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B01 (0-1.9)

Lab Sample ID: 500-106258-4

Date Collected: 01/12/16 13:35

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 87.4

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	☼	01/14/16 17:22	01/15/16 16:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B01 (0-1.9)

Lab Sample ID: 500-106258-4

Date Collected: 01/12/16 13:35

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 87.4

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	☼	01/14/16 17:22	01/15/16 16:37	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	01/14/16 17:22	01/15/16 16:37	1
2-Fluorophenol	75		25 - 110	01/14/16 17:22	01/15/16 16:37	1
Nitrobenzene-d5	77		25 - 115	01/14/16 17:22	01/15/16 16:37	1
Phenol-d5	66		31 - 110	01/14/16 17:22	01/15/16 16:37	1
Terphenyl-d14	96		36 - 134	01/14/16 17:22	01/15/16 16:37	1
2,4,6-Tribromophenol	26	X	35 - 137	01/14/16 17:22	01/15/16 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Arsenic	8.3		0.54	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Barium	46		0.54	0.099	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Beryllium	0.57		0.22	0.047	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Cadmium	0.067	J	0.11	0.031	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Chromium	14	B	0.54	0.093	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Cobalt	12		0.27	0.061	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Copper	23		0.54	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Iron	18000	B	11	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Lead	14		0.27	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Magnesium	37000		5.4	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Calcium	87000	B	110	35	mg/Kg	☼	01/14/16 09:03	01/14/16 19:18	10
Manganese	390	B	0.54	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Nickel	29		0.54	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	01/16/16 11:11	01/18/16 21:37	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Vanadium	18		0.27	0.079	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Zinc	68		1.1	0.34	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Potassium	2000	B	27	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1
Sodium	240		54	7.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Barium	0.46	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 18:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 18:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B01 (0-1.9)

Lab Sample ID: 500-106258-4

Date Collected: 01/12/16 13:35

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	510		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 18:57	1
Magnesium	67		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:57	1
Manganese	0.69		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Potassium	3.5		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 18:57	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 18:57	1
Zinc	0.40	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.054		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:17	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		01/17/16 17:00	01/19/16 20:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:47	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		01/18/16 13:30	01/19/16 14:31	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	☼	01/14/16 15:45	01/15/16 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/19/16 10:00	01/19/16 14:13	1
pH	8.05		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B02 (0-1.9)

Lab Sample ID: 500-106258-5

Date Collected: 01/12/16 13:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/13/16 13:05	01/14/16 14:07	1
Dibromofluoromethane	103		75 - 120	01/13/16 13:05	01/14/16 14:07	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/13/16 13:05	01/14/16 14:07	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/14/16 14:07	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	☼	01/14/16 17:22	01/15/16 17:01	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Anthracene	0.032	J	0.036	0.0061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B02 (0-1.9)

Lab Sample ID: 500-106258-5

Date Collected: 01/12/16 13:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.070		0.036	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Benzo[b]fluoranthene	0.12		0.036	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Benzo[k]fluoranthene	0.045		0.036	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4-Chloroaniline	<0.73	*	0.73	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Chrysene	0.11		0.036	0.0099	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Fluoranthene	0.23		0.036	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Fluorene	0.0052	J	0.036	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.036	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B02 (0-1.9)

Lab Sample ID: 500-106258-5

Date Collected: 01/12/16 13:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.8

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	☼	01/14/16 17:22	01/15/16 17:01	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Phenanthrene	0.11		0.036	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
Pyrene	0.21		0.036	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	01/14/16 17:22	01/15/16 17:01	1
2-Fluorophenol	86		25 - 110	01/14/16 17:22	01/15/16 17:01	1
Nitrobenzene-d5	91		25 - 115	01/14/16 17:22	01/15/16 17:01	1
Phenol-d5	75		31 - 110	01/14/16 17:22	01/15/16 17:01	1
Terphenyl-d14	120		36 - 134	01/14/16 17:22	01/15/16 17:01	1
2,4,6-Tribromophenol	24	X	35 - 137	01/14/16 17:22	01/15/16 17:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Arsenic	8.6		0.51	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Barium	51		0.51	0.094	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Beryllium	0.51		0.21	0.044	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Cadmium	0.12		0.10	0.030	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Chromium	12	B	0.51	0.088	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Cobalt	11		0.26	0.058	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Copper	23		0.51	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Iron	18000	B	10	4.0	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Lead	13		0.26	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Magnesium	40000		5.1	2.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Calcium	100000	B	100	33	mg/Kg	☼	01/14/16 09:03	01/14/16 19:31	10
Manganese	450	B	0.51	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Nickel	25		0.51	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Selenium	0.27	J	0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/16/16 11:11	01/18/16 21:43	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Vanadium	16		0.26	0.075	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Zinc	71		1.0	0.32	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Potassium	1800	B	26	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1
Sodium	400		51	6.8	mg/Kg	☼	01/14/16 09:03	01/14/16 17:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Barium	0.57		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

Client Sample ID: 2645-5-B02 (0-1.9)

Lab Sample ID: 500-106258-5

Date Collected: 01/12/16 13:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:04	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:04	1
Magnesium	130		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:04	1
Manganese	1.1		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Potassium	2.7		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:04	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:04	1
Zinc	0.063	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 20:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:51	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		01/18/16 13:30	01/19/16 14:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0060	mg/Kg	☼	01/14/16 15:45	01/15/16 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	01/19/16 10:00	01/19/16 14:13	1
pH	8.40		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

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
*	LCS or LCSD 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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-2

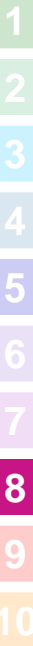
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: <u>Matt Weiss</u>	Contact: _____
Company: <u>Terracon</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: <u>matt.weiss@terracon.com</u>	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-106258

Chain of Custody Number: _____

Page 1 of 6

Temperature °C of Cooler: _____

Client		Client Project #		Preservative														Preservative Key		
Project Name		<u>1115712</u>		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>Bartlett, IL</u>																				
Sampler		Lab PM																		
<u>CTIC</u>																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix														Comments
			Date	Time																
<u>4</u>		<u>2645-5-B01 (0-1.9)</u>	<u>1/12/16</u>	<u>1:35</u>	<u>5</u>	<u>VOCS</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<u>Plane HOLD</u>
<u>5</u>		<u>2645-5-B02 (0-1.9)</u>	<u>1/12/16</u>	<u>1:20</u>	<u>5</u>	<u>SUOCS</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<u>SPLP analysis</u>

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>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>1/12/16</u>	Time <u>5:00</u>	Received By <u>Joe Trueman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>2:00am</u>
Relinquished By <u>Joe Trueman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>9:15AM</u>	Received By <u>Joe Trueman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>0915</u>
Relinquished By <u>Joe Trueman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>10:55</u>	Received By <u>Joe Trueman</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>10:55</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: met IL TACO requirements & please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-2

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 108+10 to 111+75 (ISGS Site 2645-6)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, and B04 were sampled adjacent to ISGS Site No 2645-6. See Exhibits 7, 7A, and Table 5 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-3. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

8/1/16
 Date:



Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-6)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-6-B01 (0-1.9)	2645-6-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		<0.035	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.012	0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0086	<0.039
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.019	0.0098
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.035	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.035	<0.039
Chrysene	mg/kg	1.2	2.7	88		0.012	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		0.014	0.012
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.035	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.035	<0.039
Pyrene	mg/kg	1.9	3.0	2300		0.016	0.01
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.5	7.6
Barium	mg/kg	---	110	1500		33	65
Cadmium	mg/kg	---	0.6	5.2		0.12	0.17
Chromium, total	mg/kg	---	16.2	21		11	16
Lead	mg/kg	---	36	107		14	16
Mercury	mg/kg	---	0.06	0.1		0.017	0.035
Selenium	mg/kg	---	0.48	1.3		<0.49	0.66
Silver	mg/kg	---	0.55	4.4		<0.27	<0.28
Antimony	mg/kg	---	4.0	5		<0.99	<1.2
Beryllium	mg/kg	---	0.59	22		0.4	0.63
Calcium	mg/kg	---	9,300	---		110000	62000
Cobalt	mg/kg	---	8.9	20		8.5	13
Copper	mg/kg	---	19.6	2900		18	21
Cyanide	mg/kg	---	0.51	---		<0.47	<0.59
Iron	mg/kg	---	15,900	15000		13000	18000
Magnesium	mg/kg	---	4,820	325000		46000	27000
Manganese	mg/kg	---	636	630		340	410
Nickel	mg/kg	---	18	100		21	30
Potassium	mg/kg	---	1,268	---		1600	1900
Sodium	mg/kg	---	130	---		580	640
Thallium	mg/kg	---	0.32	2.6		<0.49	<0.60
Vanadium	mg/kg	---	25.2	550		14	21
Zinc	mg/kg	---	95	5100		61	69
pH			6.25	9		8.85	8.31
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.1	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-6)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-6-B01 (0-1.9)	2645-6-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.41	0.43
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		430	390
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		100	130
Manganese,TCLP	mg/L	---	---	---		0.71	0.051
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		3.8	2.3
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.36	0.058

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-6)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-6-B03 (0-1.9)	2645-6-B04 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.013	<0.036
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.083	0.017
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.08	0.018
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.14	0.031
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.028	<0.036
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.054	0.016
Chrysene	mg/kg	1.2	2.7	88		0.1	0.023
Fluoranthene	mg/kg	2.7	4.1	3100		0.16	0.034
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.033	<0.036
Phenanthrene	mg/kg	1.3	2.5	210		0.055	0.0087
Pyrene	mg/kg	1.9	3.0	2300		0.17	0.031
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.3	6.8
Barium	mg/kg	---	110	1500		75	58
Cadmium	mg/kg	---	0.6	5.2		0.11	0.055
Chromium, total	mg/kg	---	16.2	21		14	12
Lead	mg/kg	---	36	107		35	16
Mercury	mg/kg	---	0.06	0.1		0.027	0.024
Selenium	mg/kg	---	0.48	1.3		<0.51	0.27
Silver	mg/kg	---	0.55	4.4		<0.28	<0.26
Antimony	mg/kg	---	4.0	5		<1.0	<1.0
Beryllium	mg/kg	---	0.59	22		0.59	0.53
Calcium	mg/kg	---	9,300	---		28000	87000
Cobalt	mg/kg	---	8.9	20		10	9.2
Copper	mg/kg	---	19.6	2900		18	26
Cyanide	mg/kg	---	0.51	---		<0.50	<0.55
Iron	mg/kg	---	15,900	15000		17000	15000
Magnesium	mg/kg	---	4,820	325000		18000	36000
Manganese	mg/kg	---	636	630		460	390
Nickel	mg/kg	---	18	100		23	22
Potassium	mg/kg	---	1,268	---		1300	1400
Sodium	mg/kg	---	130	---		230	210
Thallium	mg/kg	---	0.32	2.6		<0.51	0.36
Vanadium	mg/kg	---	25.2	550		22	18
Zinc	mg/kg	---	95	5100		71	57
pH			6.25	9		8.13	8.15
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.42	0.045
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-6)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-6-B03 (0-1.9)	2645-6-B04 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		mg/kg	Date Collected	01/12/2016	01/12/2016		
		Chicago				MSAs	pH 6.25-9.0
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.51	0.5
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		350	420
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.018	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		140	92
Manganese,TCLP	mg/L	---	---	---		0.19	0.19
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.2	1.7
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	0.085

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: 500-106258-3

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/22/2016 2:57:07 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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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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7

8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	8
Client Sample Results	9
Definitions	29
Certification Summary	30
Chain of Custody	31
Receipt Checklists	32

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Job ID: 500-106258-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-3

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319407 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-6-B01 (0-1.9) (500-106258-6), 2645-6-B02 (0-1.9) (500-106258-7), 2645-6-B03 (0-1.9) (500-106258-8), 2645-6-B04 (0-1.9) (500-106258-9) and 2645-6-B05 (0-1.9) (500-106258-10).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-319407 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-6-B01 (0-1.9) (500-106258-6), 2645-6-B03 (0-1.9) (500-106258-8), 2645-6-B05 (0-1.9) (500-106258-10), (500-106258-F-1-I MS) and (500-106258-F-1-J MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) for batch preparation batch 500-319511 and analytical batch 500-319624 recovered outside control limits for the following analytes: 4-Chloroaniline. This analyte was biased high in the LCS and was 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.

Metals

Method(s) 6010B: The method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B01 (0-1.9)

Lab Sample ID: 500-106258-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0086	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	46000		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Manganese	340	B	0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600	B	25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.016	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-6-B02 (0-1.9)

Lab Sample ID: 500-106258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0098	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.010	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.60	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		6.0	2.4	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B02 (0-1.9) (Continued)

Lab Sample ID: 500-106258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	410	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.058	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.31		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-6-B03 (0-1.9)

Lab Sample ID: 500-106258-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.083		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.080		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.054		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.055		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	B	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B03 (0-1.9) (Continued)

Lab Sample ID: 500-106258-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-6-B04 (0-1.9)

Lab Sample ID: 500-106258-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.034	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0087	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.031	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.055	J	0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	390	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	B	25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.085	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.15		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-6-B05 (0-1.9)

Lab Sample ID: 500-106258-10

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B05 (0-1.9) (Continued)

Lab Sample ID: 500-106258-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.0094	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.080		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.090		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.16		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.037	J	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	0.10		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.17		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.037	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.051		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.17		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Arsenic	8.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA	
Barium	90		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.050	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA	
Chromium	16	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	13		0.29	0.064	mg/Kg	1	☼	6010B	Total/NA	
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA	
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA	
Lead	32		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	8600		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA	
Calcium	12000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA	
Manganese	700	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA	
Nickel	24		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.63		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Thallium	0.65		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	27		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA	
Zinc	75		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1100	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA	
Sodium	150		57	7.5	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP	
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP	
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.028		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA	
pH	8.02		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-6	2645-6-B01 (0-1.9)	Solid	01/12/16 13:10	01/13/16 10:55
500-106258-7	2645-6-B02 (0-1.9)	Solid	01/12/16 12:55	01/13/16 10:55
500-106258-8	2645-6-B03 (0-1.9)	Solid	01/12/16 12:40	01/13/16 10:55
500-106258-9	2645-6-B04 (0-1.9)	Solid	01/12/16 12:30	01/13/16 10:55
500-106258-10	2645-6-B05 (0-1.9)	Solid	01/12/16 12:15	01/13/16 10:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B01 (0-1.9)

Lab Sample ID: 500-106258-6

Date Collected: 01/12/16 13:10

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Benzene	<0.0037		0.0037	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Bromoform	<0.0037		0.0037	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Bromomethane	<0.0037		0.0037	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Carbon disulfide	<0.0037		0.0037	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Carbon tetrachloride	<0.0037		0.0037	0.00078	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Chlorobenzene	<0.0037		0.0037	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Chloroethane	<0.0037		0.0037	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Chloroform	<0.0037		0.0037	0.00071	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Chloromethane	<0.0037		0.0037	0.00088	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00083	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Dibromochloromethane	<0.0037		0.0037	0.00042	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,1-Dichloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,2-Dichloroethane	<0.0037		0.0037	0.00054	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,2-Dichloropropane	<0.0037		0.0037	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Ethylbenzene	<0.0037		0.0037	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00075	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Styrene	<0.0037		0.0037	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Tetrachloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00071	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Trichloroethene	<0.0037		0.0037	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Vinyl acetate	<0.0037	*	0.0037	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Vinyl chloride	<0.0037		0.0037	0.00087	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1
Xylenes, Total	<0.0073		0.0073	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	01/13/16 13:05	01/14/16 14:32	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/14/16 14:32	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/13/16 13:05	01/14/16 14:32	1
Toluene-d8 (Surr)	110		75 - 122	01/13/16 13:05	01/14/16 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Benzo[a]anthracene	0.012	J	0.035	0.0048	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B01 (0-1.9)

Lab Sample ID: 500-106258-6

Date Collected: 01/12/16 13:10

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0086	J	0.035	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Benzo[b]fluoranthene	0.019	J	0.035	0.0077	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4-Chloroaniline	<0.72 *		0.72	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Chrysene	0.012	J	0.035	0.0097	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Fluoranthene	0.014	J	0.035	0.0066	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0093	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Methylnaphthalene	<0.035		0.035	0.0066	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B01 (0-1.9)

Lab Sample ID: 500-106258-6

Date Collected: 01/12/16 13:10

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 90.1

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	☼	01/14/16 17:22	01/15/16 17:25	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
Pyrene	0.016	J	0.035	0.0071	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4,5-Trichlorophenol	<0.35		0.35	0.082	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	01/14/16 17:22	01/15/16 17:25	1
2-Fluorophenol	84		25 - 110	01/14/16 17:22	01/15/16 17:25	1
Nitrobenzene-d5	83		25 - 115	01/14/16 17:22	01/15/16 17:25	1
Phenol-d5	78		31 - 110	01/14/16 17:22	01/15/16 17:25	1
Terphenyl-d14	140	X	36 - 134	01/14/16 17:22	01/15/16 17:25	1
2,4,6-Tribromophenol	49		35 - 137	01/14/16 17:22	01/15/16 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.20	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Arsenic	6.5		0.49	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Barium	33		0.49	0.090	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Beryllium	0.40		0.20	0.043	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Cadmium	0.12		0.099	0.029	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Chromium	11	B	0.49	0.085	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Cobalt	8.5		0.25	0.056	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Copper	18		0.49	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Iron	13000	B	9.9	3.8	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Lead	14		0.25	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Magnesium	46000		4.9	2.0	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Calcium	110000	B	99	32	mg/Kg	☼	01/14/16 09:03	01/14/16 19:35	10
Manganese	340	B	0.49	0.098	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Nickel	21		0.49	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/16/16 11:11	01/18/16 21:48	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Vanadium	14		0.25	0.072	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Zinc	61		0.99	0.31	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Potassium	1600	B	25	4.0	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1
Sodium	580		49	6.5	mg/Kg	☼	01/14/16 09:03	01/14/16 17:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Barium	0.41	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B01 (0-1.9)

Lab Sample ID: 500-106258-6

Date Collected: 01/12/16 13:10

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:11	1
Magnesium	100		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:11	1
Manganese	0.71		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Potassium	3.8		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:11	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:11	1
Zinc	0.36	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.10		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:31	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		01/17/16 17:00	01/19/16 20:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:55	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		01/18/16 13:30	01/19/16 14:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.016	0.0057	mg/Kg	☼	01/14/16 15:45	01/15/16 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.15	mg/Kg	☼	01/19/16 10:00	01/19/16 14:14	1
pH	8.85		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B02 (0-1.9)

Lab Sample ID: 500-106258-7

Date Collected: 01/12/16 12:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/13/16 13:05	01/14/16 14:57	1
Dibromofluoromethane	106		75 - 120	01/13/16 13:05	01/14/16 14:57	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/13/16 13:05	01/14/16 14:57	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/14/16 14:57	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	☼	01/14/16 17:22	01/15/16 13:48	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B02 (0-1.9)

Lab Sample ID: 500-106258-7

Date Collected: 01/12/16 12:55

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.039		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Benzo[b]fluoranthene	0.0098	J	0.039	0.0084	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4-Chloroaniline	<0.79	*	0.79	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Fluoranthene	0.012	J	0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B02 (0-1.9)

Lab Sample ID: 500-106258-7

Date Collected: 01/12/16 12:55

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.79		0.79	0.37	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
Pyrene	0.010	J	0.039	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	01/14/16 17:22	01/15/16 13:48	1
2-Fluorophenol	84		25 - 110	01/14/16 17:22	01/15/16 13:48	1
Nitrobenzene-d5	87		25 - 115	01/14/16 17:22	01/15/16 13:48	1
Phenol-d5	77		31 - 110	01/14/16 17:22	01/15/16 13:48	1
Terphenyl-d14	107		36 - 134	01/14/16 17:22	01/15/16 13:48	1
2,4,6-Tribromophenol	70		35 - 137	01/14/16 17:22	01/15/16 13:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Arsenic	7.6		0.60	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Barium	65		0.60	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Beryllium	0.63		0.24	0.052	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Cadmium	0.17		0.12	0.034	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Chromium	16	B	0.60	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Cobalt	13		0.30	0.067	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Copper	21		0.60	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Iron	18000	B	12	4.6	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Lead	16		0.30	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Magnesium	27000		6.0	2.4	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Calcium	62000	B	120	38	mg/Kg	☼	01/14/16 09:03	01/14/16 19:39	10
Manganese	410	B	0.60	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Nickel	30		0.60	0.16	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Selenium	0.66		0.60	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/16/16 11:11	01/18/16 21:53	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Vanadium	21		0.30	0.087	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Zinc	69		1.2	0.38	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Potassium	1900	B	30	4.9	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1
Sodium	640		60	7.9	mg/Kg	☼	01/14/16 09:03	01/14/16 17:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Barium	0.43	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B02 (0-1.9)

Lab Sample ID: 500-106258-7

Date Collected: 01/12/16 12:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:17	1
Magnesium	130		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:17	1
Manganese	0.051		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Potassium	2.3 J		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:17	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:17	1
Zinc	0.058 J B		0.50	0.020	mg/L		01/17/16 17:00	01/18/16 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		01/17/16 17:00	01/19/16 20:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 20:59	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		01/18/16 13:30	01/19/16 14:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0063	mg/Kg	☼	01/14/16 15:45	01/15/16 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:14	1
pH	8.31		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B03 (0-1.9)

Lab Sample ID: 500-106258-8

Date Collected: 01/12/16 12:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/13/16 13:05	01/14/16 15:22	1
Dibromofluoromethane	106		75 - 120	01/13/16 13:05	01/14/16 15:22	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/13/16 13:05	01/14/16 15:22	1
Toluene-d8 (Surr)	111		75 - 122	01/13/16 13:05	01/14/16 15:22	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	☼	01/14/16 17:22	01/15/16 17:49	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Anthracene	0.013	J	0.038	0.0064	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Benzo[a]anthracene	0.083		0.038	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B03 (0-1.9)

Lab Sample ID: 500-106258-8

Date Collected: 01/12/16 12:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.080		0.038	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Benzo[b]fluoranthene	0.14		0.038	0.0082	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Benzo[g,h,i]perylene	0.028	J	0.038	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Benzo[k]fluoranthene	0.054		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4-Chloroaniline	<0.77	*	0.77	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Chrysene	0.10		0.038	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Fluoranthene	0.16		0.038	0.0071	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.038	0.0099	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B03 (0-1.9)

Lab Sample ID: 500-106258-8

Date Collected: 01/12/16 12:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Phenanthrene	0.055		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
Pyrene	0.17		0.038	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	01/14/16 17:22	01/15/16 17:49	1
2-Fluorophenol	85		25 - 110	01/14/16 17:22	01/15/16 17:49	1
Nitrobenzene-d5	87		25 - 115	01/14/16 17:22	01/15/16 17:49	1
Phenol-d5	73		31 - 110	01/14/16 17:22	01/15/16 17:49	1
Terphenyl-d14	135	X	36 - 134	01/14/16 17:22	01/15/16 17:49	1
2,4,6-Tribromophenol	45		35 - 137	01/14/16 17:22	01/15/16 17:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Arsenic	7.3		0.51	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Barium	75		0.51	0.093	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Beryllium	0.59		0.20	0.044	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Cadmium	0.11		0.10	0.030	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Chromium	14	B	0.51	0.088	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Cobalt	10		0.26	0.058	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Copper	18		0.51	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Iron	17000	B	10	3.9	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Lead	35		0.26	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Magnesium	18000		5.1	2.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Calcium	28000	B	10	3.3	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Manganese	460	B	0.51	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Nickel	23		0.51	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/16/16 11:11	01/18/16 21:58	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Vanadium	22		0.26	0.075	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Zinc	71		1.0	0.32	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Potassium	1300	B	26	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1
Sodium	230		51	6.7	mg/Kg	☼	01/14/16 09:03	01/14/16 17:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Barium	0.51		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B03 (0-1.9)

Lab Sample ID: 500-106258-8

Date Collected: 01/12/16 12:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Copper	0.018	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:24	1
Magnesium	140		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:24	1
Manganese	0.19		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Potassium	2.2	J	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:24	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:24	1
Zinc	0.15	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:44	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		01/17/16 17:00	01/19/16 21:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:03	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		01/18/16 13:30	01/19/16 14:39	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	☼	01/14/16 15:45	01/15/16 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	01/19/16 10:00	01/19/16 14:15	1
pH	8.13		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B04 (0-1.9)

Lab Sample ID: 500-106258-9

Date Collected: 01/12/16 12:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/13/16 13:05	01/14/16 15:47	1
Dibromofluoromethane	104		75 - 120	01/13/16 13:05	01/14/16 15:47	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/14/16 15:47	1
Toluene-d8 (Surr)	110		75 - 122	01/13/16 13:05	01/14/16 15:47	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	☼	01/14/16 17:22	01/15/16 14:12	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Benzo[a]anthracene	0.017	J	0.036	0.0049	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B04 (0-1.9)

Lab Sample ID: 500-106258-9

Date Collected: 01/12/16 12:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.018	J	0.036	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Benzo[b]fluoranthene	0.031	J	0.036	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Benzo[k]fluoranthene	0.016	J	0.036	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4-Chloroaniline	<0.73	*	0.73	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Chrysene	0.023	J	0.036	0.0099	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Fluoranthene	0.034	J	0.036	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B04 (0-1.9)

Lab Sample ID: 500-106258-9

Date Collected: 01/12/16 12:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.7

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	☼	01/14/16 17:22	01/15/16 14:12	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Phenanthrene	0.0087	J	0.036	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
Pyrene	0.031	J	0.036	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	01/14/16 17:22	01/15/16 14:12	1
2-Fluorophenol	76		25 - 110	01/14/16 17:22	01/15/16 14:12	1
Nitrobenzene-d5	76		25 - 115	01/14/16 17:22	01/15/16 14:12	1
Phenol-d5	72		31 - 110	01/14/16 17:22	01/15/16 14:12	1
Terphenyl-d14	111		36 - 134	01/14/16 17:22	01/15/16 14:12	1
2,4,6-Tribromophenol	48		35 - 137	01/14/16 17:22	01/15/16 14:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Arsenic	6.8		0.51	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Barium	58		0.51	0.093	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Beryllium	0.53		0.20	0.044	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Cadmium	0.055	J	0.10	0.029	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Chromium	12	B	0.51	0.087	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Cobalt	9.2		0.25	0.057	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Copper	26		0.51	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Iron	15000	B	10	3.9	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Lead	16		0.25	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Magnesium	36000		5.1	2.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Calcium	87000	B	100	33	mg/Kg	☼	01/14/16 09:03	01/14/16 19:43	10
Manganese	390	B	0.51	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Nickel	22		0.51	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Selenium	0.27	J	0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/16/16 11:11	01/18/16 22:03	1
Thallium	0.36	J	0.51	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Vanadium	18		0.25	0.074	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Zinc	57		1.0	0.32	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Potassium	1400	B	25	4.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1
Sodium	210		51	6.7	mg/Kg	☼	01/14/16 09:03	01/14/16 17:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Barium	0.50		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B04 (0-1.9)

Lab Sample ID: 500-106258-9

Date Collected: 01/12/16 12:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:31	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:31	1
Magnesium	92		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:31	1
Manganese	0.19		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Potassium	1.7 J		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:31	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:31	1
Zinc	0.085 J B		0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.045		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:51	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		01/17/16 17:00	01/19/16 21:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:15	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		01/18/16 13:30	01/19/16 14:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0060	mg/Kg	☼	01/14/16 15:45	01/15/16 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/19/16 10:00	01/19/16 14:15	1
pH	8.15		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B05 (0-1.9)

Lab Sample ID: 500-106258-10

Date Collected: 01/12/16 12:15

Matrix: Solid

Date Received: 01/13/16 10:55

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		0.016	0.0032	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/13/16 13:05	01/14/16 16:12	1
Dibromofluoromethane	106		75 - 120	01/13/16 13:05	01/14/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/13/16 13:05	01/14/16 16:12	1
Toluene-d8 (Surr)	108		75 - 122	01/13/16 13:05	01/14/16 16:12	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	☼	01/14/16 17:22	01/15/16 18:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Anthracene	0.0094	J	0.038	0.0063	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Benzo[a]anthracene	0.080		0.038	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B05 (0-1.9)

Lab Sample ID: 500-106258-10

Date Collected: 01/12/16 12:15

Matrix: Solid

Date Received: 01/13/16 10:55

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	0.090		0.038	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Benzo[b]fluoranthene	0.16		0.038	0.0082	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Benzo[g,h,i]perylene	0.037	J	0.038	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Benzo[k]fluoranthene	0.061		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4-Chloroaniline	<0.76	*	0.76	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Chrysene	0.10		0.038	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Fluoranthene	0.17		0.038	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.038	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B05 (0-1.9)

Lab Sample ID: 500-106258-10

Date Collected: 01/12/16 12:15

Matrix: Solid

Date Received: 01/13/16 10:55

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	☼	01/14/16 17:22	01/15/16 18:14	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Phenanthrene	0.051		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
Pyrene	0.17		0.038	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	01/14/16 17:22	01/15/16 18:14	1
2-Fluorophenol	65		25 - 110	01/14/16 17:22	01/15/16 18:14	1
Nitrobenzene-d5	67		25 - 115	01/14/16 17:22	01/15/16 18:14	1
Phenol-d5	55		31 - 110	01/14/16 17:22	01/15/16 18:14	1
Terphenyl-d14	96		36 - 134	01/14/16 17:22	01/15/16 18:14	1
2,4,6-Tribromophenol	21	X	35 - 137	01/14/16 17:22	01/15/16 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Arsenic	8.9		0.57	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Barium	90		0.57	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Cadmium	0.050	J	0.11	0.033	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Chromium	16	B	0.57	0.098	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Cobalt	13		0.29	0.064	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Copper	18		0.57	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Iron	20000	B	11	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Lead	32		0.29	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Magnesium	8600		5.7	2.3	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Calcium	12000	B	11	3.7	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Manganese	700	B	0.57	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Nickel	24		0.57	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Selenium	0.63		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/16/16 11:11	01/18/16 22:15	1
Thallium	0.65		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Vanadium	27		0.29	0.083	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Zinc	75		1.1	0.36	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Potassium	1100	B	29	4.7	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1
Sodium	150		57	7.5	mg/Kg	☼	01/14/16 09:03	01/14/16 17:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Barium	0.59		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

Client Sample ID: 2645-6-B05 (0-1.9)

Lab Sample ID: 500-106258-10

Date Collected: 01/12/16 12:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:38	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Copper	0.010	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:38	1
Magnesium	150		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:38	1
Manganese	0.25		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Potassium	2.3	J	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:38	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:38	1
Zinc	0.33	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 02:58	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		01/17/16 17:00	01/19/16 21:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:19	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		01/18/16 13:30	01/19/16 14:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0065	mg/Kg	☼	01/14/16 15:45	01/15/16 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:15	1
pH	8.02		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

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
*	LCS or LCSD 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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-3

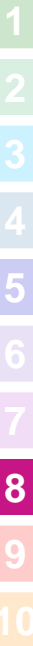
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106258
 Chain of Custody Number: _____
 Page 2 of 6
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
		<u>115712</u>											
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM					
		<u>Bartlett, IL</u>				<u>CTX</u>							
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	23 TAL Inorganics	TCLP 23 TAL Inorganics	pH	SPLP 23 TAL Inorganics	Preservative Key
			Date	Time									
<u>6</u>		<u>2645-6-B01 (0-1.9)</u>	<u>1/12/16</u>	<u>1:10</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>HOLD SPLP</u>
<u>7</u>		<u>2645-6-B02 (0-1.9)</u>	<u>1/12/16</u>	<u>12:55</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>Analysis</u>
<u>8</u>		<u>2645-6-B03 (0-1.9)</u>	<u>1/12/16</u>	<u>12:40</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>9</u>		<u>2645-6-B04 (0-1.9)</u>	<u>1/12/16</u>	<u>12:30</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>10</u>		<u>2645-6-B05 (0-1.9)</u>	<u>1/12/16</u>	<u>12:15</u>	<u>S</u>		<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

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>1/12/16</u>	Time <u>5:00</u>	Received By <u>Joe Trimo</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>7:00AM</u>
Relinquished By <u>Joe Trimo</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>9:15AM</u>	Received By <u>Joe Trimo</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>0915</u>
Relinquished By <u>Joe Trimo</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>1055</u>	Received By <u>Joe Trimo</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>1055</u>

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
 CL - Oil O - Other
 A - Air

Client Comments: Meet IL TACO Requirements, & please HOLD SPLP analysis, thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-3

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 38+34 to 40+45 (ISGS Site 2645-7)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012ALatitude: 41.97500 Longitude: -88.20700Uncontaminated 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 B04, B05, and B06 were sampled adjacent to ISGS Site No 2645-7.
See Exhibits 2, 2A, and Table 7 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106201-1. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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))

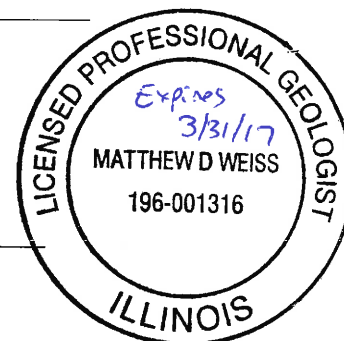
Company Name: Terracon Consultants, Inc
Street Address: 135 Ambassador Drive
City: Naperville State: IL Zip Code: 60540
Phone: 630-717-4263

Matt Weiss

Printed Name:

Matt Weiss8/1/16

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-7)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-7-B04 (0-1.9)	2645-7-B05 (0-1.9)	2645-7-B06 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016	01/11/2016
Semivolatile Organic Analytical Parameters								
Anthracene	mg/kg	0.25	0.4	12000		0.017	<0.041	0.0086
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.11	0.036	0.052
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.12	0.041	0.059
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.2	0.076	0.1
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.05	0.017	0.023
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.063	0.026	0.036
Chrysene	mg/kg	1.2	2.7	88		0.15	0.055	0.073
Fluoranthene	mg/kg	2.7	4.1	3100		0.27	0.092	0.13
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.055	0.022	0.027
Phenanthrene	mg/kg	1.3	2.5	210		0.12	0.039	0.056
Pyrene	mg/kg	1.9	3.0	2300		0.24	0.077	0.11
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		11	8.6	9.3
Barium	mg/kg	---	110	1500		96	130	120
Cadmium	mg/kg	---	0.6	5.2		0.28	0.3	0.27
Chromium, total	mg/kg	---	16.2	21		16	18	18
Lead	mg/kg	---	36	107		29	24	27
Mercury	mg/kg	---	0.06	0.1		0.04	0.042	0.041
Selenium	mg/kg	---	0.48	1.3		0.67	0.84	0.62
Silver	mg/kg	---	0.55	4.4		<0.31	<0.32	<0.31
Antimony	mg/kg	---	4.0	5		0.61	<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.68	0.8	0.79
Calcium	mg/kg	---	9,300	---		21000	5400	7300
Cobalt	mg/kg	---	8.9	20		11	13	14
Copper	mg/kg	---	19.6	2900		20	19	20
Cyanide	mg/kg	---	0.51	---		<0.57	<0.59	<0.58
Iron	mg/kg	---	15,900	15000		21000	20000	24000
Magnesium	mg/kg	---	4,820	325000		13000	3900	5300
Manganese	mg/kg	---	636	630		660	830	790
Nickel	mg/kg	---	18	100		24	26	27
Potassium	mg/kg	---	1,268	---		1600	1700	1800
Sodium	mg/kg	---	130	---		820	940	760
Thallium	mg/kg	---	0.32	2.6		<0.59	<0.61	<0.61
Vanadium	mg/kg	---	25.2	550		25	29	28
Zinc	mg/kg	---	95	5100		80	90	87
pH			6.25	9		8.76	8.33	8.17
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	--	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-7)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-7-B04 (0-1.9)	2645-7-B05 (0-1.9)	2645-7-B06 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)	(0-1.9)
				mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016	01/11/2016
		Chicago	MSAs					
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.46	0.38	0.4
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		280	130	110
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.015	0.018	0.032
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	0.32	0.5
Magnesium,TCLP	mg/L	---	---	---		120	56	44
Manganese,TCLP	mg/L	---	---	---		0.11	0.066	0.054
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		4.3	4.6	4.4
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	---	---	---		0.41	0.15	0.18

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: 500-106201-1

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

1/20/2016 5:00:09 PM

Richard Wright, Senior Project Manager

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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

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	10
Client Sample Results	11
Definitions	39
Certification Summary	40
Chain of Custody	41
Receipt Checklists	42

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Job ID: 500-106201-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106201-1

Comments

No additional comments.

Receipt

The samples were received on 1/12/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-319260 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Due to internal standard (ISTD) area failures, a dilution was required for the following samples: 2645-7-B01 (0-1.9) (500-106201-1) and 2645-7-B02 DUP (0-1.9) (500-106201-3). The samples were initially analyzed without dilution. All internal standards were outside the QC limits. The samples were re-analyzed with similar results. No usable data was obtained from the un-diluted runs. The samples were re-analyzed at a dilution using the methanol extraction method. All internal standard areas were within limits in the diluted run. Elevated reporting limits have been provided.

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 laboratory control sample (LCS) for batch 500-319370 recovered outside control limits for the following analyte: 4-Chloroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: (500-106201-F-1-L MS) and (500-106201-F-1-M MSD). 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) 6020A: The internal standard (Tb) was used to report the element (Tl) in batch 500-320159.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B01 (0-1.9)

Lab Sample ID: 500-106201-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.014	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.091		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.090		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.063	F1	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.055		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.098		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.057		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.062		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16	F1	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.59	J F1	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.3	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7	F1	0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	52000	B F2	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	770	F1	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.039	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B02 (0-1.9)

Lab Sample ID: 500-106201-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0064	J	0.037	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.069		0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.076		0.037	0.0068	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) (Continued)

Lab Sample ID: 500-106201-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.035	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.078		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	16		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.7	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	7.3		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	64000	B	55	22	mg/Kg	10	☼	6010B	Total/NA
Calcium	110000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	300		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.28	J	0.40	0.20	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	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.045		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.016	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B02 (0-1.9) Dup

Lab Sample ID: 500-106201-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0086	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.70	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	17		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.8	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.8		0.25	0.058	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) Dup (Continued)

Lab Sample ID: 500-106201-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	9.5		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8700	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	5.6		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000	B	51	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	170000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	290		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.6	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.7		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	26		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	670		25	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	300		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.042	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.011	J	0.016	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	7.78		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B03 (0-1.9)

Lab Sample ID: 500-106201-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0090	J	0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0064	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.029	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.19		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.080		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0090	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.080		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.45		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.29	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B03 (0-1.9) (Continued)

Lab Sample ID: 500-106201-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	10000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	650		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	970		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	160		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	76		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.54	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.021	0.0073	mg/Kg	1	☼	7471B	Total/NA
pH	8.30		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B04 (0-1.9)

Lab Sample ID: 500-106201-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.017	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.063		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.055		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.24		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	660		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B04 (0-1.9) (Continued)

Lab Sample ID: 500-106201-5

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	1600		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.41	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.040		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B05 (0-1.9)

Lab Sample ID: 500-106201-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.036	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.076		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.055		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.092		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.077		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3900	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	5400	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	830		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.84		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	940		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	56		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.066		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B05 (0-1.9) (Continued)

Lab Sample ID: 500-106201-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.042		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-7-B06 (0-1.9)

Lab Sample ID: 500-106201-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0086	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.052		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.059		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.073		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.3		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5300	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	7300	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	790		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	87		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	760		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	110		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.50		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	44		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.041		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106201-1	2645-7-B01 (0-1.9)	Solid	01/11/16 12:20	01/12/16 10:25
500-106201-2	2645-7-B02 (0-1.9)	Solid	01/11/16 11:50	01/12/16 10:25
500-106201-3	2645-7-B02 (0-1.9) Dup	Solid	01/11/16 11:55	01/12/16 10:25
500-106201-4	2645-7-B03 (0-1.9)	Solid	01/11/16 11:40	01/12/16 10:25
500-106201-5	2645-7-B04 (0-1.9)	Solid	01/11/16 11:30	01/12/16 10:25
500-106201-6	2645-7-B05 (0-1.9)	Solid	01/11/16 11:20	01/12/16 10:25
500-106201-7	2645-7-B06 (0-1.9)	Solid	01/11/16 11:10	01/12/16 10:25



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B01 (0-1.9)

Lab Sample ID: 500-106201-1

Date Collected: 01/11/16 12:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.24		0.24	0.084	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Benzene	<0.012		0.012	0.0071	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Bromodichloromethane	<0.048		0.048	0.018	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Bromoform	<0.048		0.048	0.023	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Bromomethane	<0.097		0.097	0.039	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
2-Butanone (MEK)	<0.24		0.24	0.10	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Carbon disulfide	<0.097		0.097	0.039	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Carbon tetrachloride	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Chlorobenzene	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Chloroethane	<0.048		0.048	0.024	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Chloroform	<0.048		0.048	0.018	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Chloromethane	<0.048		0.048	0.015	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
cis-1,2-Dichloroethene	<0.048		0.048	0.020	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
cis-1,3-Dichloropropene	<0.048		0.048	0.020	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Dibromochloromethane	<0.048		0.048	0.024	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,1-Dichloroethane	<0.048		0.048	0.020	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,2-Dichloroethane	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,1-Dichloroethene	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,2-Dichloropropane	<0.048		0.048	0.021	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,3-Dichloropropene, Total	<0.048		0.048	0.020	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Ethylbenzene	<0.012		0.012	0.0089	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
2-Hexanone	<0.24		0.24	0.075	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Methylene Chloride	<0.24		0.24	0.079	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
4-Methyl-2-pentanone (MIBK)	<0.24		0.24	0.10	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Methyl tert-butyl ether	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Styrene	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,1,2,2-Tetrachloroethane	<0.048		0.048	0.019	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Tetrachloroethene	<0.048		0.048	0.018	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Toluene	<0.012		0.012	0.0071	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
trans-1,2-Dichloroethene	<0.048		0.048	0.017	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
trans-1,3-Dichloropropene	<0.048		0.048	0.018	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,1,1-Trichloroethane	<0.048		0.048	0.018	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
1,1,2-Trichloroethane	<0.048		0.048	0.017	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Trichloroethene	<0.024		0.024	0.0079	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Vinyl acetate	<0.097		0.097	0.044	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Vinyl chloride	<0.024		0.024	0.013	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50
Xylenes, Total	<0.024		0.024	0.011	mg/Kg	☼	01/11/16 12:20	01/14/16 14:45	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 120	01/11/16 12:20	01/14/16 14:45	50
Dibromofluoromethane	84		75 - 120	01/11/16 12:20	01/14/16 14:45	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 125	01/11/16 12:20	01/14/16 14:45	50
Toluene-d8 (Surr)	94		75 - 120	01/11/16 12:20	01/14/16 14:45	50

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	☼	01/13/16 16:52	01/14/16 11:51	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Anthracene	0.014	J	0.038	0.0063	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Benzo[a]anthracene	0.091		0.038	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B01 (0-1.9)

Lab Sample ID: 500-106201-1

Date Collected: 01/11/16 12:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.090		0.038	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Benzo[b]fluoranthene	0.13		0.038	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Benzo[g,h,i]perylene	0.063	F1	0.038	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Benzo[k]fluoranthene	0.055		0.038	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Bis(2-chloroethyl)ether	<0.19	F2	0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4-Chloroaniline	<0.76	*	0.76	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Chrysene	0.098		0.038	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.67	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Fluoranthene	0.19		0.038	0.0070	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Indeno[1,2,3-cd]pyrene	0.057		0.038	0.0098	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B01 (0-1.9)

Lab Sample ID: 500-106201-1

Date Collected: 01/11/16 12:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 87.5

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	☼	01/13/16 16:52	01/14/16 11:51	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Pentachlorophenol	<0.76	F1	0.76	0.61	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Phenanthrene	0.062		0.038	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
Pyrene	0.16	F1	0.038	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	01/13/16 16:52	01/14/16 11:51	1
2-Fluorophenol	89		25 - 110	01/13/16 16:52	01/14/16 11:51	1
Nitrobenzene-d5	94		25 - 115	01/13/16 16:52	01/14/16 11:51	1
Phenol-d5	83		31 - 110	01/13/16 16:52	01/14/16 11:51	1
Terphenyl-d14	111		36 - 134	01/13/16 16:52	01/14/16 11:51	1
2,4,6-Tribromophenol	36		35 - 137	01/13/16 16:52	01/14/16 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J F1	1.1	0.22	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Arsenic	7.2		0.54	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Barium	29		0.54	0.099	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Beryllium	0.32		0.22	0.047	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Cadmium	0.22		0.11	0.031	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Chromium	8.3	B	0.54	0.093	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Cobalt	6.4		0.27	0.061	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Copper	15		0.54	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Iron	11000	B	11	4.4	mg/Kg	☼	01/14/16 16:21	01/16/16 19:01	1
Lead	9.7	F1	0.27	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Magnesium	52000	B F2	5.4	2.2	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Calcium	110000	B	110	35	mg/Kg	☼	01/13/16 16:12	01/14/16 15:03	10
Manganese	430		0.54	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Nickel	16	B	0.54	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	01/14/16 16:21	01/16/16 19:01	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Vanadium	16		0.27	0.079	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Zinc	43		1.1	0.34	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Potassium	770	F1	27	4.4	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1
Sodium	340		54	7.1	mg/Kg	☼	01/13/16 16:12	01/14/16 13:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Barium	0.23	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 14:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 14:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B01 (0-1.9)

Lab Sample ID: 500-106201-1

Date Collected: 01/11/16 12:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 14:27	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Copper	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 14:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 14:27	1
Magnesium	130		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:27	1
Manganese	0.81		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Potassium	1.9 J		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:27	1
Selenium	0.020 J		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 14:27	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:27	1
Zinc	0.039 J B		0.50	0.020	mg/L		01/14/16 15:51	01/15/16 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		01/16/16 10:29	01/18/16 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/14/16 15:51	01/19/16 18:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 18:54	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		01/14/16 09:45	01/14/16 12:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013 J		0.018	0.0062	mg/Kg	☼	01/12/16 16:30	01/13/16 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/13/16 10:30	01/13/16 14:05	1
pH	8.85		0.200	0.200	SU			01/15/16 14:15	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9)

Lab Sample ID: 500-106201-2

Date Collected: 01/11/16 11:50

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.030		0.030	0.0058	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Benzene	<0.0076		0.0076	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Bromodichloromethane	<0.0076		0.0076	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Bromoform	<0.0076		0.0076	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Bromomethane	<0.0076		0.0076	0.0028	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
2-Butanone (MEK)	<0.0076		0.0076	0.0027	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Carbon disulfide	<0.0076		0.0076	0.0028	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Carbon tetrachloride	<0.0076		0.0076	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Chlorobenzene	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Chloroethane	<0.0076		0.0076	0.0032	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Chloroform	<0.0076		0.0076	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Chloromethane	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
cis-1,2-Dichloroethene	<0.0076		0.0076	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
cis-1,3-Dichloropropene	<0.0076		0.0076	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Dibromochloromethane	<0.0076		0.0076	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,1-Dichloroethane	<0.0076		0.0076	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,2-Dichloroethane	<0.0076		0.0076	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,1-Dichloroethene	<0.0076		0.0076	0.0028	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,2-Dichloropropane	<0.0076		0.0076	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,3-Dichloropropane, Total	<0.0076		0.0076	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Ethylbenzene	<0.0076		0.0076	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
2-Hexanone	<0.0076		0.0076	0.0023	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Methylene Chloride	<0.0076		0.0076	0.0057	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
4-Methyl-2-pentanone (MIBK)	<0.0076		0.0076	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Methyl tert-butyl ether	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Styrene	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,1,2,2-Tetrachloroethane	<0.0076		0.0076	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Tetrachloroethene	<0.0076		0.0076	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Toluene	<0.0076		0.0076	0.0026	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
trans-1,2-Dichloroethene	<0.0076		0.0076	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
trans-1,3-Dichloropropene	<0.0076		0.0076	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,1,1-Trichloroethane	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
1,1,2-Trichloroethane	<0.0076		0.0076	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Trichloroethene	<0.0076		0.0076	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Vinyl acetate	<0.0076 *		0.0076	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Vinyl chloride	<0.0076		0.0076	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1
Xylenes, Total	<0.015		0.015	0.0028	mg/Kg	☼	01/12/16 12:10	01/13/16 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/12/16 12:10	01/13/16 13:35	1
Dibromofluoromethane	109		75 - 120	01/12/16 12:10	01/13/16 13:35	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/12/16 12:10	01/13/16 13:35	1
Toluene-d8 (Surr)	112		75 - 122	01/12/16 12:10	01/13/16 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Anthracene	0.0064	J	0.037	0.0061	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Benzo[a]anthracene	0.034	J	0.037	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9)

Lab Sample ID: 500-106201-2

Date Collected: 01/11/16 11:50

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.040		0.037	0.0071	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Benzo[b]fluoranthene	0.069		0.037	0.0079	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Benzo[k]fluoranthene	0.031	J	0.037	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4-Chloroaniline	<0.74	*	0.74	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Chrysene	0.049		0.037	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Fluoranthene	0.076		0.037	0.0068	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Nitroaniline	<0.18		0.18	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9)

Lab Sample ID: 500-106201-2

Date Collected: 01/11/16 11:50

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 89.6

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	☼	01/13/16 16:52	01/14/16 16:41	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Phenanthrene	0.035	J	0.037	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
Pyrene	0.078		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/13/16 16:52	01/14/16 16:41	1
2-Fluorophenol	76		25 - 110	01/13/16 16:52	01/14/16 16:41	1
Nitrobenzene-d5	81		25 - 115	01/13/16 16:52	01/14/16 16:41	1
Phenol-d5	68		31 - 110	01/13/16 16:52	01/14/16 16:41	1
Terphenyl-d14	108		36 - 134	01/13/16 16:52	01/14/16 16:41	1
2,4,6-Tribromophenol	49		35 - 137	01/13/16 16:52	01/14/16 16:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.23	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Arsenic	4.8		0.55	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Barium	16		0.55	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Beryllium	0.24		0.22	0.047	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Cadmium	0.16		0.11	0.032	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Chromium	6.7	B	0.55	0.094	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Cobalt	5.0		0.27	0.062	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Copper	12		0.55	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Iron	12000	B	10	3.9	mg/Kg	☼	01/14/16 16:21	01/16/16 19:39	1
Lead	7.3		0.27	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Magnesium	64000	B	55	22	mg/Kg	☼	01/13/16 16:12	01/14/16 15:30	10
Calcium	110000	B	110	35	mg/Kg	☼	01/13/16 16:12	01/14/16 15:30	10
Manganese	300		0.55	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Nickel	12	B	0.55	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Selenium	0.29	J	0.55	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	01/14/16 16:21	01/16/16 19:39	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Vanadium	13		0.27	0.080	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Zinc	32		1.1	0.35	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Potassium	640		27	4.5	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1
Sodium	310		55	7.2	mg/Kg	☼	01/13/16 16:12	01/14/16 13:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Barium	0.30	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 14:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 14:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 14:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9)

Lab Sample ID: 500-106201-2

Date Collected: 01/11/16 11:50

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 14:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Copper	0.015	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Iron	0.28	J	0.40	0.20	mg/L		01/14/16 15:51	01/15/16 14:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 14:48	1
Magnesium	87		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:48	1
Manganese	1.1		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Potassium	2.2	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 14:48	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:48	1
Zinc	0.31	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.045		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:06	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		01/14/16 15:51	01/19/16 19:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:10	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		01/14/16 09:45	01/14/16 12:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.016	0.0056	mg/Kg	☼	01/12/16 16:30	01/13/16 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	01/13/16 10:30	01/13/16 14:05	1
pH	7.83		0.200	0.200	SU			01/15/16 14:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) Dup

Lab Sample ID: 500-106201-3

Date Collected: 01/11/16 11:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.30		0.30	0.10	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Benzene	<0.015		0.015	0.0086	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Bromodichloromethane	<0.059		0.059	0.022	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Bromoform	<0.059		0.059	0.029	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Bromomethane	<0.12		0.12	0.047	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
2-Butanone (MEK)	<0.30		0.30	0.13	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Carbon disulfide	<0.12		0.12	0.047	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Carbon tetrachloride	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Chlorobenzene	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Chloroethane	<0.059		0.059	0.030	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Chloroform	<0.059		0.059	0.022	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Chloromethane	<0.059		0.059	0.019	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
cis-1,2-Dichloroethene	<0.059		0.059	0.024	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
cis-1,3-Dichloropropene	<0.059		0.059	0.025	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Dibromochloromethane	<0.059		0.059	0.029	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,1-Dichloroethane	<0.059		0.059	0.024	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,2-Dichloroethane	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,1-Dichloroethene	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,2-Dichloropropane	<0.059		0.059	0.025	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,3-Dichloropropene, Total	<0.059		0.059	0.025	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Ethylbenzene	<0.015		0.015	0.011	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
2-Hexanone	<0.30		0.30	0.092	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Methylene Chloride	<0.30		0.30	0.097	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
4-Methyl-2-pentanone (MIBK)	<0.30		0.30	0.13	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Methyl tert-butyl ether	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Styrene	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,1,2,2-Tetrachloroethane	<0.059		0.059	0.024	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Tetrachloroethene	<0.059		0.059	0.022	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Toluene	<0.015		0.015	0.0087	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
trans-1,2-Dichloroethene	<0.059		0.059	0.021	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
trans-1,3-Dichloropropene	<0.059		0.059	0.021	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,1,1-Trichloroethane	<0.059		0.059	0.023	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
1,1,2-Trichloroethane	<0.059		0.059	0.021	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Trichloroethene	<0.030		0.030	0.0097	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Vinyl acetate	<0.12		0.12	0.054	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Vinyl chloride	<0.030		0.030	0.016	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50
Xylenes, Total	<0.030		0.030	0.013	mg/Kg	☼	01/11/16 11:55	01/14/16 15:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 120	01/11/16 11:55	01/14/16 15:11	50
Dibromofluoromethane	84		75 - 120	01/11/16 11:55	01/14/16 15:11	50
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	01/11/16 11:55	01/14/16 15:11	50
Toluene-d8 (Surr)	94		75 - 120	01/11/16 11:55	01/14/16 15:11	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Benzo[a]anthracene	0.013	J	0.035	0.0048	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) Dup

Lab Sample ID: 500-106201-3

Date Collected: 01/11/16 11:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.013	J	0.035	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Benzo[b]fluoranthene	0.018	J	0.035	0.0077	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4-Chloroaniline	<0.72	*	0.72	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Chrysene	0.015	J	0.035	0.0097	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.28	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4-Dinitrophenol	<0.72		0.72	0.62	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Fluoranthene	0.023	J	0.035	0.0066	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) Dup

Lab Sample ID: 500-106201-3

Date Collected: 01/11/16 11:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 93.2

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	☼	01/13/16 16:52	01/14/16 12:15	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Phenanthrene	0.0086	J	0.035	0.0049	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
Pyrene	0.021	J	0.035	0.0070	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	01/13/16 16:52	01/14/16 12:15	1
2-Fluorophenol	85		25 - 110	01/13/16 16:52	01/14/16 12:15	1
Nitrobenzene-d5	90		25 - 115	01/13/16 16:52	01/14/16 12:15	1
Phenol-d5	79		31 - 110	01/13/16 16:52	01/14/16 12:15	1
Terphenyl-d14	108		36 - 134	01/13/16 16:52	01/14/16 12:15	1
2,4,6-Tribromophenol	57		35 - 137	01/13/16 16:52	01/14/16 12:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.0	0.21	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Arsenic	4.1		0.51	0.24	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Barium	17		0.51	0.093	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Beryllium	0.24		0.20	0.044	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Cadmium	0.16		0.10	0.029	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Chromium	5.8	B	0.51	0.088	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Cobalt	3.8		0.25	0.058	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Copper	9.5		0.51	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Iron	8700	B	10	4.0	mg/Kg	☼	01/14/16 16:21	01/16/16 19:44	1
Lead	5.6		0.25	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Magnesium	100000	B	51	21	mg/Kg	☼	01/13/16 16:12	01/14/16 15:34	10
Calcium	170000	B	100	33	mg/Kg	☼	01/13/16 16:12	01/14/16 15:34	10
Manganese	290		0.51	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Nickel	9.6	B	0.51	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Selenium	0.28	J	0.51	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/14/16 16:21	01/16/16 19:44	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Vanadium	9.7		0.25	0.074	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Zinc	26		1.0	0.32	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Potassium	670		25	4.2	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1
Sodium	300		51	6.7	mg/Kg	☼	01/13/16 16:12	01/14/16 14:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Barium	0.34	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 14:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 14:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 14:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B02 (0-1.9) Dup

Lab Sample ID: 500-106201-3

Date Collected: 01/11/16 11:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 14:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Copper	0.016	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 14:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 14:53	1
Magnesium	100		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:53	1
Manganese	1.6		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Potassium	2.1	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 14:53	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:53	1
Zinc	0.042	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.025		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:13	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		01/14/16 15:51	01/19/16 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:14	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		01/14/16 09:45	01/14/16 12:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.016	0.0056	mg/Kg	☼	01/12/16 16:30	01/13/16 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.15	mg/Kg	☼	01/13/16 10:30	01/13/16 14:05	1
pH	7.78		0.200	0.200	SU			01/15/16 14:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B03 (0-1.9)

Lab Sample ID: 500-106201-4

Date Collected: 01/11/16 11:40

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Vinyl acetate	<0.0053 *		0.0053	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/12/16 12:10	01/13/16 14:25	1
Dibromofluoromethane	101		75 - 120	01/12/16 12:10	01/13/16 14:25	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	01/12/16 12:10	01/13/16 14:25	1
Toluene-d8 (Surr)	110		75 - 122	01/12/16 12:10	01/13/16 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0090	J	0.041	0.0074	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Acenaphthylene	0.0064	J	0.041	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Anthracene	0.029	J	0.041	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Benzo[a]anthracene	0.19		0.041	0.0056	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B03 (0-1.9)

Lab Sample ID: 500-106201-4

Date Collected: 01/11/16 11:40

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Benzo[b]fluoranthene	0.41		0.041	0.0089	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Benzo[g,h,i]perylene	0.080		0.041	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Benzo[k]fluoranthene	0.15		0.041	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4-Chloroaniline	<0.84 *		0.84	0.19	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Chrysene	0.24		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Fluoranthene	0.43		0.041	0.0077	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Fluorene	0.0090 J		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Indeno[1,2,3-cd]pyrene	0.080		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B03 (0-1.9)

Lab Sample ID: 500-106201-4

Date Collected: 01/11/16 11:40

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Phenanthrene	0.16		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
Pyrene	0.45		0.041	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	01/13/16 16:52	01/14/16 17:05	1
2-Fluorophenol	84		25 - 110	01/13/16 16:52	01/14/16 17:05	1
Nitrobenzene-d5	86		25 - 115	01/13/16 16:52	01/14/16 17:05	1
Phenol-d5	77		31 - 110	01/13/16 16:52	01/14/16 17:05	1
Terphenyl-d14	134		36 - 134	01/13/16 16:52	01/14/16 17:05	1
2,4,6-Tribromophenol	65		35 - 137	01/13/16 16:52	01/14/16 17:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.24	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Arsenic	8.9		0.59	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Barium	120		0.59	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Beryllium	0.76		0.24	0.051	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Cadmium	0.26		0.12	0.034	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Chromium	17	B	0.59	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Cobalt	12		0.29	0.066	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Copper	19		0.59	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Iron	22000		12	4.8	mg/Kg	☼	01/14/16 16:21	01/15/16 18:38	1
Lead	26		0.29	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Magnesium	10000	B	5.9	2.4	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Calcium	15000	B	12	3.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Manganese	650		0.59	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Nickel	25	B	0.59	0.16	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Selenium	0.70		0.59	0.29	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	01/14/16 16:21	01/15/16 18:38	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Vanadium	27		0.29	0.086	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Zinc	80		1.2	0.37	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Potassium	1700		29	4.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1
Sodium	970		59	7.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Barium	0.43	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 14:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B03 (0-1.9)

Lab Sample ID: 500-106201-4

Date Collected: 01/11/16 11:40

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 14:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Copper	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Iron	0.30	J	0.40	0.20	mg/L		01/14/16 15:51	01/15/16 14:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 14:58	1
Magnesium	76		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:58	1
Manganese	0.16		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Potassium	5.3		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 14:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 14:58	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 14:58	1
Zinc	0.54	B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.69		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/14/16 15:51	01/19/16 19:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:18	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		01/14/16 09:45	01/14/16 12:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0073	mg/Kg	☼	01/12/16 16:30	01/13/16 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.20	mg/Kg	☼	01/13/16 10:30	01/13/16 14:06	1
pH	8.30		0.200	0.200	SU			01/15/16 14:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B04 (0-1.9)

Lab Sample ID: 500-106201-5

Date Collected: 01/11/16 11:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Methylene Chloride	<0.0055		0.0055	0.0042	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Vinyl acetate	<0.0055 *		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/12/16 12:10	01/13/16 14:50	1
Dibromofluoromethane	109		75 - 120	01/12/16 12:10	01/13/16 14:50	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/12/16 12:10	01/13/16 14:50	1
Toluene-d8 (Surr)	108		75 - 122	01/12/16 12:10	01/13/16 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Anthracene	0.017	J	0.041	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Benzo[a]anthracene	0.11		0.041	0.0056	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B04 (0-1.9)

Lab Sample ID: 500-106201-5

Date Collected: 01/11/16 11:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Benzo[b]fluoranthene	0.20		0.041	0.0089	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Benzo[g,h,i]perylene	0.050		0.041	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Benzo[k]fluoranthene	0.063		0.041	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4-Chloroaniline	<0.84 *		0.84	0.19	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Chrysene	0.15		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Fluoranthene	0.27		0.041	0.0077	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Indeno[1,2,3-cd]pyrene	0.055		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B04 (0-1.9)

Lab Sample ID: 500-106201-5

Date Collected: 01/11/16 11:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Phenanthrene	0.12		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
Pyrene	0.24		0.041	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	01/13/16 16:52	01/14/16 12:39	1
2-Fluorophenol	88		25 - 110	01/13/16 16:52	01/14/16 12:39	1
Nitrobenzene-d5	98		25 - 115	01/13/16 16:52	01/14/16 12:39	1
Phenol-d5	83		31 - 110	01/13/16 16:52	01/14/16 12:39	1
Terphenyl-d14	119		36 - 134	01/13/16 16:52	01/14/16 12:39	1
2,4,6-Tribromophenol	72		35 - 137	01/13/16 16:52	01/14/16 12:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Arsenic	11		0.59	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Barium	96		0.59	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Beryllium	0.68		0.24	0.051	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Cadmium	0.28		0.12	0.034	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Chromium	16	B	0.59	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Cobalt	11		0.30	0.067	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Copper	20		0.59	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Iron	21000		12	4.8	mg/Kg	☼	01/14/16 16:21	01/15/16 18:45	1
Lead	29		0.30	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Magnesium	13000	B	5.9	2.4	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Calcium	21000	B	12	3.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Manganese	660		0.59	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Nickel	24	B	0.59	0.16	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Selenium	0.67		0.59	0.29	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	01/14/16 16:21	01/15/16 18:45	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Vanadium	25		0.30	0.087	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Zinc	80		1.2	0.38	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Potassium	1600		30	4.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1
Sodium	820		59	7.8	mg/Kg	☼	01/13/16 16:12	01/14/16 14:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Barium	0.46	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B04 (0-1.9)

Lab Sample ID: 500-106201-5

Date Collected: 01/11/16 11:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:03	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Copper	0.015	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:03	1
Magnesium	120		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:03	1
Manganese	0.11		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Potassium	4.3		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:03	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:03	1
Zinc	0.41	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:03	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		01/14/16 15:51	01/19/16 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:22	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		01/14/16 09:45	01/14/16 12:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0066	mg/Kg	☼	01/12/16 16:30	01/13/16 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/13/16 10:30	01/13/16 14:06	1
pH	8.76		0.200	0.200	SU			01/15/16 14:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B05 (0-1.9)

Lab Sample ID: 500-106201-6

Date Collected: 01/11/16 11:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Vinyl acetate	<0.0051	*	0.0051	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/12/16 12:10	01/13/16 15:15	1
Dibromofluoromethane	103		75 - 120	01/12/16 12:10	01/13/16 15:15	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/12/16 12:10	01/13/16 15:15	1
Toluene-d8 (Surr)	109		75 - 122	01/12/16 12:10	01/13/16 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Benzo[a]anthracene	0.036	J	0.041	0.0056	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B05 (0-1.9)

Lab Sample ID: 500-106201-6

Date Collected: 01/11/16 11:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 76.7

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	☼	01/13/16 16:52	01/14/16 13:03	1
Benzo[b]fluoranthene	0.076		0.041	0.0089	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Benzo[k]fluoranthene	0.026	J	0.041	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4-Chloroaniline	<0.83	*	0.83	0.19	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Chrysene	0.055		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Fluoranthene	0.092		0.041	0.0077	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B05 (0-1.9)

Lab Sample ID: 500-106201-6

Date Collected: 01/11/16 11:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 76.7

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	☼	01/13/16 16:52	01/14/16 13:03	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Phenanthrene	0.039	J	0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
Pyrene	0.077		0.041	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	01/13/16 16:52	01/14/16 13:03	1
2-Fluorophenol	86		25 - 110	01/13/16 16:52	01/14/16 13:03	1
Nitrobenzene-d5	92		25 - 115	01/13/16 16:52	01/14/16 13:03	1
Phenol-d5	79		31 - 110	01/13/16 16:52	01/14/16 13:03	1
Terphenyl-d14	113		36 - 134	01/13/16 16:52	01/14/16 13:03	1
2,4,6-Tribromophenol	58		35 - 137	01/13/16 16:52	01/14/16 13:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Arsenic	8.6		0.61	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Barium	130		0.61	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Beryllium	0.80		0.24	0.053	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Cadmium	0.30		0.12	0.035	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Chromium	18	B	0.61	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Cobalt	13		0.31	0.069	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Copper	19		0.61	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Iron	20000		13	4.9	mg/Kg	☼	01/14/16 16:21	01/15/16 18:52	1
Lead	24		0.31	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Magnesium	3900	B	6.1	2.5	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Calcium	5400	B	12	3.9	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Manganese	830		0.61	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Nickel	26	B	0.61	0.17	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Selenium	0.84		0.61	0.30	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Silver	<0.32		0.32	0.074	mg/Kg	☼	01/14/16 16:21	01/15/16 18:52	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Vanadium	29		0.31	0.089	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Zinc	90		1.2	0.39	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Potassium	1700		31	5.0	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1
Sodium	940		61	8.1	mg/Kg	☼	01/13/16 16:12	01/14/16 14:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Barium	0.38	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B05 (0-1.9)

Lab Sample ID: 500-106201-6

Date Collected: 01/11/16 11:20

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Copper	0.018	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Iron	0.32	J	0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:08	1
Magnesium	56		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:08	1
Manganese	0.066		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Potassium	4.6		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:08	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:08	1
Zinc	0.15	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/14/16 15:51	01/19/16 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:34	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		01/14/16 09:45	01/14/16 12:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0069	mg/Kg	☼	01/12/16 16:30	01/13/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/13/16 10:30	01/13/16 14:06	1
pH	8.33		0.200	0.200	SU			01/15/16 14:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B06 (0-1.9)

Lab Sample ID: 500-106201-7

Date Collected: 01/11/16 11:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0045	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Benzene	<0.0058		0.0058	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Bromodichloromethane	<0.0058		0.0058	0.00098	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Bromoform	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Bromomethane	<0.0058		0.0058	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Carbon disulfide	<0.0058		0.0058	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Carbon tetrachloride	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Chlorobenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Chloroethane	<0.0058		0.0058	0.0024	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Chloroform	<0.0058		0.0058	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Chloromethane	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Dibromochloromethane	<0.0058		0.0058	0.00066	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,1-Dichloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,1-Dichloroethene	<0.0058		0.0058	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,2-Dichloropropane	<0.0058		0.0058	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,3-Dichloropropane, Total	<0.0058		0.0058	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Ethylbenzene	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Methylene Chloride	<0.0058		0.0058	0.0044	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Methyl tert-butyl ether	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Styrene	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Tetrachloroethene	<0.0058		0.0058	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Toluene	<0.0058		0.0058	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Trichloroethene	<0.0058		0.0058	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Vinyl acetate	<0.0058 *		0.0058	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Vinyl chloride	<0.0058		0.0058	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1
Xylenes, Total	<0.012		0.012	0.0021	mg/Kg	☼	01/12/16 12:10	01/13/16 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/12/16 12:10	01/13/16 15:40	1
Dibromofluoromethane	105		75 - 120	01/12/16 12:10	01/13/16 15:40	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/12/16 12:10	01/13/16 15:40	1
Toluene-d8 (Surr)	108		75 - 122	01/12/16 12:10	01/13/16 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Anthracene	0.0086	J	0.041	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Benzo[a]anthracene	0.052		0.041	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B06 (0-1.9)

Lab Sample ID: 500-106201-7

Date Collected: 01/11/16 11:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.059		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Benzo[b]fluoranthene	0.10		0.041	0.0089	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Benzo[g,h,i]perylene	0.023	J	0.041	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Benzo[k]fluoranthene	0.036	J	0.041	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4-Chloroaniline	<0.83	*	0.83	0.19	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Chrysene	0.073		0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Fluoranthene	0.13		0.041	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.041	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B06 (0-1.9)

Lab Sample ID: 500-106201-7

Date Collected: 01/11/16 11:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 77.2

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	☼	01/13/16 16:52	01/14/16 15:04	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Phenanthrene	0.056		0.041	0.0057	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
Pyrene	0.11		0.041	0.0082	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/13/16 16:52	01/14/16 15:04	1
2-Fluorophenol	92		25 - 110	01/13/16 16:52	01/14/16 15:04	1
Nitrobenzene-d5	96		25 - 115	01/13/16 16:52	01/14/16 15:04	1
Phenol-d5	76		31 - 110	01/13/16 16:52	01/14/16 15:04	1
Terphenyl-d14	120		36 - 134	01/13/16 16:52	01/14/16 15:04	1
2,4,6-Tribromophenol	46		35 - 137	01/13/16 16:52	01/14/16 15:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Arsenic	9.3		0.61	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Barium	120		0.61	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Beryllium	0.79		0.24	0.053	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Cadmium	0.27		0.12	0.035	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Chromium	18 B		0.61	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Cobalt	14		0.30	0.069	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Copper	20		0.61	0.13	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Iron	24000		12	4.8	mg/Kg	☼	01/14/16 16:21	01/15/16 18:59	1
Lead	27		0.30	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Magnesium	5300 B		6.1	2.5	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Calcium	7300 B		12	3.9	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Manganese	790		0.61	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Nickel	27 B		0.61	0.16	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Selenium	0.62		0.61	0.30	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	01/14/16 16:21	01/15/16 18:59	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Vanadium	28		0.30	0.089	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Zinc	87		1.2	0.39	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Potassium	1800		30	5.0	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1
Sodium	760		61	8.0	mg/Kg	☼	01/13/16 16:12	01/14/16 14:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Barium	0.40 J		0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

Client Sample ID: 2645-7-B06 (0-1.9)

Lab Sample ID: 500-106201-7

Date Collected: 01/11/16 11:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Copper	0.032		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Iron	0.50		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:14	1
Magnesium	44		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:14	1
Manganese	0.054		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Potassium	4.4		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:14	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:14	1
Zinc	0.18	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:14	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		01/14/16 15:51	01/19/16 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/14/16 09:45	01/14/16 12:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0068	mg/Kg	☼	01/12/16 16:30	01/13/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/13/16 10:30	01/13/16 14:07	1
pH	8.17		0.200	0.200	SU			01/15/16 14:34	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

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.
*	LCS or LCSD 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
X	Surrogate is outside control 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control 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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-1

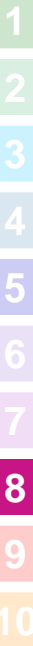
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5201



500-106201 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 135 Ambassador Dr.
Address: Naperville, IL 60540
Phone: 630-717-4263
Fax:
E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106201
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.1, 2.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
		<u>11157112</u>										
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key		
		<u>Bartlett, IL</u>				<u>CTIC</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		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL inorganics
			Date	Time								
<u>1</u>		<u>2645-7-B01 (0-1.9)</u>	<u>1/11/16</u>	<u>12:20</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>2</u>		<u>2645-7-B02 (0-1.9)</u>	<u>1/11/16</u>	<u>11:50</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>3</u>		<u>2645-7-B02 Dup (0-1.9)</u>	<u>1/11/16</u>	<u>11:55</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>4</u>		<u>2645-7-B03 (0-1.9)</u>	<u>1/11/16</u>	<u>11:40</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>5</u>		<u>2645-7-B04 (0-1.9)</u>	<u>1/11/16</u>	<u>11:30</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>6</u>		<u>2645-7-B05 (0-1.9)</u>	<u>1/11/16</u>	<u>11:20</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>7</u>		<u>2645-7-B06 (0-1.9)</u>	<u>1/11/16</u>	<u>11:10</u>	<u>S</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

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>1/12/16</u>	Time <u>8:25</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/12/16</u>	Time <u>0845</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/12/16</u>	Time <u>1025</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>1/12/16</u>	Time <u>1025</u>

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: Please meet IL TACO Requirements & HOLD SPLP analysis. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106201-1

Login Number: 106201

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	3.1,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 42+90 to 45+00 (ISGS Site 2645-8)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, and B03 were sampled adjacent to ISGS Site No 2645-8. See Exhibits 3, 3A, and Table 9 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106201-2. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

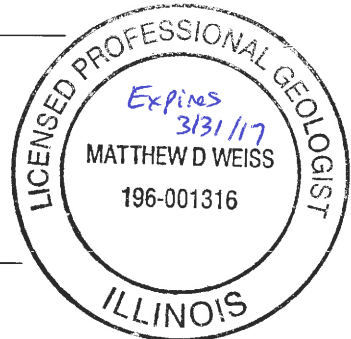
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]

8/1/16
Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-8)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-8-B01 (0-3.8)	2645-8-B02 (0-3.8)	2645-8-B03 (0-3.8)
				CCDD	Sample Depth (feet)	(0-3.8)	(0-3.8)	(0-3.8)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016	01/11/2016
Semivolatile Organic Analytical Parameters								
Anthracene	mg/kg	0.25	0.4	12000		0.0078	<0.039	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.049	0.0068	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.061	<0.039	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.11	0.013	0.011
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.026	<0.039	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.045	<0.039	<0.037
Chrysene	mg/kg	1.2	2.7	88		0.075	<0.039	0.01
Fluoranthene	mg/kg	2.7	4.1	3100		0.13	0.011	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.029	<0.039	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		0.06	<0.039	<0.037
Pyrene	mg/kg	1.9	3.0	2300		0.11	0.011	<0.037
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		4.5	7	6.7
Barium	mg/kg	---	110	1500		75	50	64
Cadmium	mg/kg	---	0.6	5.2		0.31	0.24	0.24
Chromium, total	mg/kg	---	16.2	21		14	13	15
Lead	mg/kg	---	36	107		24	19	22
Mercury	mg/kg	---	0.06	0.1		0.038	0.017	0.018
Selenium	mg/kg	---	0.48	1.3		<0.56	<0.57	<0.58
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30	<0.29
Antimony	mg/kg	---	4.0	5		0.43	0.62	0.31
Beryllium	mg/kg	---	0.59	22		0.6	0.52	0.63
Calcium	mg/kg	---	9,300	---		59000	100000	61000
Cobalt	mg/kg	---	8.9	20		12	9.1	11
Copper	mg/kg	---	19.6	2900		25	19	24
Cyanide	mg/kg	---	0.51	---		<0.54	<0.55	<0.50
Iron	mg/kg	---	15,900	15000		20000	21000	20000
Magnesium	mg/kg	---	4,820	325000		26000	48000	27000
Manganese	mg/kg	---	636	630		570	390	370
Nickel	mg/kg	---	18	100		29	21	27
Potassium	mg/kg	---	1,268	---		1400	1200	1400
Sodium	mg/kg	---	130	---		370	240	380
Thallium	mg/kg	---	0.32	2.6		<0.56	<0.57	0.3
Vanadium	mg/kg	---	25.2	550		20	20	21
Zinc	mg/kg	---	95	5100		82	58	72
pH			6.25	9		8.47	8.49	8.44
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	0.71	0.79
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-8)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-8-B01 (0-3.8)	2645-8-B02 (0-3.8)	2645-8-B03 (0-3.8)
				CCDD	Sample Depth (feet)	(0-3.8)	(0-3.8)	(0-3.8)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016	01/11/2016
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.53	0.43	0.44
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		340	280	320
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.028	0.01	0.01
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		120	95	130
Manganese,TCLP	mg/L	---	---	---		0.03	0.18	0.55
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.1	0.99	0.91
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	---	---	---		0.11	0.26	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: 500-106201-2
Client Project/Site: IDOT - Bartlett - WO 012

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
1/20/2016 4:47:47 PM

Richard Wright, Senior Project Manager
(708)534-5200
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LINKS

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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.

1

2

3

4

5

6

7

8

9

10



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
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Job ID: 500-106201-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106201-2

Comments

No additional comments.

Receipt

The samples were received on 1/12/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-319260 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was 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.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch 500-319370 recovered outside control limits for the following analyte: 4-Chloroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: (500-106201-F-1-L MS) and (500-106201-F-1-M MSD). 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) 6020A: The internal standard (Tb) was used to report the element (TI) in batch 500-320159.

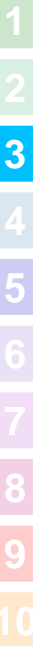
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B01 (0-3.8)

Lab Sample ID: 500-106201-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0078	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.049		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.061		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.045		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.075		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.060		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	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	75		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	570		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	370		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-8-B02 (0-3.8)

Lab Sample ID: 500-106201-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0068	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B02 (0-3.8) (Continued)

Lab Sample ID: 500-106201-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.24		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.99	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-8-B03 (0-3.8)

Lab Sample ID: 500-106201-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.011	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.010	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B03 (0-3.8) (Continued)

Lab Sample ID: 500-106201-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.91	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0064	mg/Kg	1	*	7471B	Total/NA
pH	8.44		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106201-8	2645-8-B01 (0-3.8)	Solid	01/11/16 12:55	01/12/16 10:25
500-106201-9	2645-8-B02 (0-3.8)	Solid	01/11/16 12:45	01/12/16 10:25
500-106201-10	2645-8-B03 (0-3.8)	Solid	01/11/16 12:35	01/12/16 10:25

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B01 (0-3.8)

Lab Sample ID: 500-106201-8

Date Collected: 01/11/16 12:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	01/12/16 12:10	01/13/16 16:05	1
Dibromofluoromethane	106		75 - 120	01/12/16 12:10	01/13/16 16:05	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/12/16 12:10	01/13/16 16:05	1
Toluene-d8 (Surr)	111		75 - 122	01/12/16 12:10	01/13/16 16:05	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	☼	01/13/16 16:52	01/14/16 15:28	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Anthracene	0.0078	J	0.039	0.0065	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Benzo[a]anthracene	0.049		0.039	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B01 (0-3.8)

Lab Sample ID: 500-106201-8

Date Collected: 01/11/16 12:55

Matrix: Solid

Date Received: 01/12/16 10:25

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	0.061		0.039	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Benzo[b]fluoranthene	0.11		0.039	0.0084	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Benzo[k]fluoranthene	0.045		0.039	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4-Chloroaniline	<0.79	*	0.79	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Chrysene	0.075		0.039	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Fluoranthene	0.13		0.039	0.0072	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.039	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B01 (0-3.8)

Lab Sample ID: 500-106201-8

Date Collected: 01/11/16 12:55

Matrix: Solid

Date Received: 01/12/16 10:25

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	☼	01/13/16 16:52	01/14/16 15:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Phenanthrene	0.060		0.039	0.0054	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
Pyrene	0.11		0.039	0.0077	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	01/13/16 16:52	01/14/16 15:28	1
2-Fluorophenol	75		25 - 110	01/13/16 16:52	01/14/16 15:28	1
Nitrobenzene-d5	79		25 - 115	01/13/16 16:52	01/14/16 15:28	1
Phenol-d5	64		31 - 110	01/13/16 16:52	01/14/16 15:28	1
Terphenyl-d14	106		36 - 134	01/13/16 16:52	01/14/16 15:28	1
2,4,6-Tribromophenol	42		35 - 137	01/13/16 16:52	01/14/16 15:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.23	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Barium	75		0.56	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Beryllium	0.60		0.22	0.049	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Cadmium	0.31		0.11	0.033	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Chromium	14	B	0.56	0.097	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Cobalt	12		0.28	0.064	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Copper	25		0.56	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Iron	20000		12	4.4	mg/Kg	☼	01/14/16 16:21	01/15/16 19:05	1
Lead	24		0.28	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Magnesium	26000	B	5.6	2.3	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Calcium	59000	B	110	36	mg/Kg	☼	01/13/16 16:12	01/14/16 15:43	10
Manganese	570		0.56	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Nickel	29	B	0.56	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/14/16 16:21	01/15/16 19:05	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Vanadium	20		0.28	0.082	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Zinc	82		1.1	0.36	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Potassium	1400		28	4.6	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1
Sodium	370		56	7.4	mg/Kg	☼	01/13/16 16:12	01/14/16 14:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Barium	0.53		0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B01 (0-3.8)

Lab Sample ID: 500-106201-8

Date Collected: 01/11/16 12:55

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:27	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Copper	0.028		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:27	1
Magnesium	120		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:27	1
Manganese	0.030		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Potassium	2.1 J		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:27	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:27	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:27	1
Zinc	0.11 J B		0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:27	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		01/14/16 15:51	01/19/16 19:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/14/16 09:45	01/14/16 12:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0068	mg/Kg	☼	01/12/16 16:30	01/13/16 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/13/16 10:30	01/13/16 14:08	1
pH	8.47		0.200	0.200	SU			01/15/16 14:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B02 (0-3.8)

Lab Sample ID: 500-106201-9

Date Collected: 01/11/16 12:45

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/12/16 12:10	01/13/16 16:30	1
Dibromofluoromethane	105		75 - 120	01/12/16 12:10	01/13/16 16:30	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/12/16 12:10	01/13/16 16:30	1
Toluene-d8 (Surr)	111		75 - 122	01/12/16 12:10	01/13/16 16:30	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	☼	01/13/16 16:52	01/14/16 13:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Benzo[a]anthracene	0.0068	J	0.039	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B02 (0-3.8)

Lab Sample ID: 500-106201-9

Date Collected: 01/11/16 12:45

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.4

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	☼	01/13/16 16:52	01/14/16 13:27	1
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4-Chloroaniline	<0.79	*	0.79	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Fluoranthene	0.011	J	0.039	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B02 (0-3.8)

Lab Sample ID: 500-106201-9

Date Collected: 01/11/16 12:45

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.4

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	☼	01/13/16 16:52	01/14/16 13:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
Pyrene	0.011	J	0.039	0.0078	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/13/16 16:52	01/14/16 13:27	1
2-Fluorophenol	86		25 - 110	01/13/16 16:52	01/14/16 13:27	1
Nitrobenzene-d5	89		25 - 115	01/13/16 16:52	01/14/16 13:27	1
Phenol-d5	80		31 - 110	01/13/16 16:52	01/14/16 13:27	1
Terphenyl-d14	118		36 - 134	01/13/16 16:52	01/14/16 13:27	1
2,4,6-Tribromophenol	49		35 - 137	01/13/16 16:52	01/14/16 13:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.24	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Arsenic	7.0		0.57	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Barium	50		0.57	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Beryllium	0.52		0.23	0.050	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Cadmium	0.24		0.11	0.033	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Chromium	13	B	0.57	0.099	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Cobalt	9.1		0.29	0.065	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Copper	19		0.57	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Iron	21000		12	4.6	mg/Kg	☼	01/14/16 16:21	01/15/16 19:12	1
Lead	19		0.29	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Magnesium	48000	B	5.7	2.3	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Calcium	100000	B	110	37	mg/Kg	☼	01/13/16 16:12	01/14/16 15:47	10
Manganese	390		0.57	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Nickel	21	B	0.57	0.16	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/14/16 16:21	01/15/16 19:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Vanadium	20		0.29	0.084	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Zinc	58		1.1	0.36	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Potassium	1200		29	4.7	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1
Sodium	240		57	7.6	mg/Kg	☼	01/13/16 16:12	01/14/16 14:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Barium	0.43	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B02 (0-3.8)

Lab Sample ID: 500-106201-9

Date Collected: 01/11/16 12:45

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Copper	0.010	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:32	1
Magnesium	95		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:32	1
Manganese	0.18		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Potassium	0.99	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:32	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:32	1
Zinc	0.26	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:26	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		01/14/16 15:51	01/19/16 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/14/16 09:45	01/14/16 12:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0064	mg/Kg	☼	01/12/16 16:30	01/13/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/13/16 10:30	01/13/16 14:08	1
pH	8.49		0.200	0.200	SU			01/15/16 14:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B03 (0-3.8)

Lab Sample ID: 500-106201-10

Date Collected: 01/11/16 12:35

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Chloroethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/12/16 12:10	01/13/16 16:55	1
Dibromofluoromethane	110		75 - 120	01/12/16 12:10	01/13/16 16:55	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/12/16 12:10	01/13/16 16:55	1
Toluene-d8 (Surr)	111		75 - 122	01/12/16 12:10	01/13/16 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B03 (0-3.8)

Lab Sample ID: 500-106201-10

Date Collected: 01/11/16 12:35

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 84.1

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	☼	01/13/16 16:52	01/14/16 13:51	1
Benzo[b]fluoranthene	0.011	J	0.037	0.0081	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4-Chloroaniline	<0.76	*	0.76	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Chrysene	0.010	J	0.037	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B03 (0-3.8)

Lab Sample ID: 500-106201-10

Date Collected: 01/11/16 12:35

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 84.1

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	☼	01/13/16 16:52	01/14/16 13:51	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	01/13/16 16:52	01/14/16 13:51	1
2-Fluorophenol	73		25 - 110	01/13/16 16:52	01/14/16 13:51	1
Nitrobenzene-d5	74		25 - 115	01/13/16 16:52	01/14/16 13:51	1
Phenol-d5	69		31 - 110	01/13/16 16:52	01/14/16 13:51	1
Terphenyl-d14	105		36 - 134	01/13/16 16:52	01/14/16 13:51	1
2,4,6-Tribromophenol	37		35 - 137	01/13/16 16:52	01/14/16 13:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.24	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Arsenic	6.7		0.58	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Barium	64		0.58	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Beryllium	0.63		0.23	0.050	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Cadmium	0.24		0.12	0.033	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Chromium	15	B	0.58	0.099	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Cobalt	11		0.29	0.065	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Copper	24		0.58	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Iron	20000		12	4.5	mg/Kg	☼	01/14/16 16:21	01/15/16 19:19	1
Lead	22		0.29	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Magnesium	27000	B	5.8	2.3	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Calcium	61000	B	120	37	mg/Kg	☼	01/13/16 16:12	01/14/16 15:51	10
Manganese	370		0.58	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Nickel	27	B	0.58	0.16	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Selenium	<0.58		0.58	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/14/16 16:21	01/15/16 19:19	1
Thallium	0.30	J	0.58	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Vanadium	21		0.29	0.084	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Zinc	72		1.2	0.36	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Potassium	1400		29	4.7	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1
Sodium	380		58	7.6	mg/Kg	☼	01/13/16 16:12	01/14/16 14:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Barium	0.44	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Client Sample ID: 2645-8-B03 (0-3.8)

Lab Sample ID: 500-106201-10

Date Collected: 01/11/16 12:35

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:37	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Copper	0.010	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Iron	<0.40		0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:37	1
Magnesium	130		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:37	1
Manganese	0.55		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Potassium	0.91	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:37	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:37	1
Zinc	0.27	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.79		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/14/16 15:51	01/19/16 19:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/14/16 09:45	01/14/16 12:48	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	☼	01/12/16 16:30	01/13/16 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	01/13/16 10:30	01/13/16 14:08	1
pH	8.44		0.200	0.200	SU			01/15/16 14:43	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-2

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Report To (optional)	Bill To (optional)
Contact: <u>Matt Weiss</u>	Contact: _____
Company: <u>Terracon</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: <u>Matt.Weiss@terracon.com</u>	PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-106201

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project # <u>11152112</u>		Preservative		Parameter		Matrix		Comments		
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key		
<u>Box Hill, IL</u>		<u>Box Hill, IL</u>				<u>CTIC</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		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics
			Date	Time								
<u>8</u>		<u>2645-8-B01 (0-3.8)</u>	<u>11/11/16</u>	<u>12:55</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>9</u>		<u>2645-8-B02 (0-3.8)</u>	<u>11/11/16</u>	<u>12:45</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>10</u>		<u>2645-8-B03 (0-3.8)</u>	<u>11/11/16</u>	<u>12:35</u>	<u>5</u>		<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

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>11/11/16</u>	Time: <u>8:45</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>11/12/16</u>	Time: <u>0845</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>11/12/16</u>	Time: <u>1025</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>11/12/16</u>	Time: <u>1025</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: Please meet IL TACO Requirements & HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106201-2

Login Number: 106201

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	3.1,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 45+00 to 47+90 (ISGS Site 2645-9)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, and B04 were sampled adjacent to ISGS Site No 2645-9. See Exhibits 3, 4, 3B, 4A and Table 11 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-4 and J106201-3. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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.

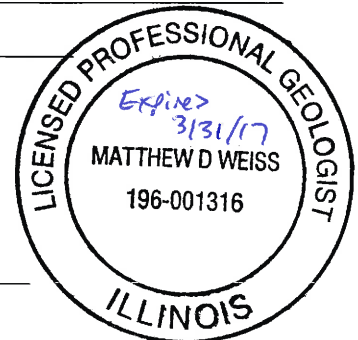
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

8/1/16
 Date:



Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-9)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-9-B01 (0-5.5)	2645-9-B01 (0-5.5) Dup	2645-9-B02 (0-5.5)
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5) Dup	(0-5.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/11/2016
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		<0.018	<0.016	0.028
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.038	<0.040
Anthracene	mg/kg	0.25	0.4	12000		<0.037	<0.038	0.012
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0093	<0.038	0.019
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	<0.038	<0.040
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.015	<0.038	0.16
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	<0.038	0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	<0.038	0.036
Chrysene	mg/kg	1.2	2.7	88		0.011	<0.038	0.13
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.038	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.015	<0.038	0.16
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.038	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.0052	<0.038	0.054
Pyrene	mg/kg	1.9	3.0	2300		0.016	<0.038	0.19
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.19	0.81
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		10	9.6	8
Barium	mg/kg	---	110	1500		50	51	73
Cadmium	mg/kg	---	0.6	5.2		0.052	0.07	0.066
Chromium, total	mg/kg	---	16.2	21		13	14	14
Lead	mg/kg	---	36	107		16	16	20
Mercury	mg/kg	---	0.06	0.1		0.032	0.025	0.031
Selenium	mg/kg	---	0.48	1.3		<0.54	<0.57	<0.55
Silver	mg/kg	---	0.55	4.4		<0.28	<0.27	<0.28
Antimony	mg/kg	---	4.0	5		<1.1	<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.58	0.61	0.58
Calcium	mg/kg	---	9,300	---		79000	74000	52000
Cobalt	mg/kg	---	8.9	20		12	12	11
Copper	mg/kg	---	19.6	2900		24	23	23
Cyanide	mg/kg	---	0.51	---		<0.56	<0.50	<0.57
Iron	mg/kg	---	15,900	15000		19000	20000	17000
Magnesium	mg/kg	---	4,820	325000		34000	32000	23000
Manganese	mg/kg	---	636	630		480	480	590
Nickel	mg/kg	---	18	100		29	29	25
Potassium	mg/kg	---	1,268	---		1500	1500	1500
Sodium	mg/kg	---	130	---		160	160	420
Thallium	mg/kg	---	0.32	2.6		0.42	<0.57	0.29
Vanadium	mg/kg	---	25.2	550		18	19	22
Zinc	mg/kg	---	95	5100		73	74	71
pH			6.25	9		8.13	8.13	8.19
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-9)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-9-B01 (0-5.5)	2645-9-B01 (0-5.5) Dup	2645-9-B02 (0-5.5)
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5) Dup	(0-5.5)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/11/2016
		Chicago	MSAs					
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.049	0.01	1.1
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.49	0.47	0.78
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	0.0002
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	---	---	---		430	430	290
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	0.038
Copper,TCLP	mg/L	---	---	---		<0.025	0.016	0.015
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		130	120	110
Manganese,TCLP	mg/L	---	---	---		0.25	0.38	14
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.026
Potassium,TCLP	mg/L	---	---	---		1.7	2.5	11
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	---	---	---		0.11	0.14	0.079

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-9)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-9-B03 (0-5.5)	2645-9-B04 (0-5.5)
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.022	<0.017
Semivolatile Organic Analytical Parameters							
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	0.011
Anthracene	mg/kg	0.25	0.4	12000		<0.037	0.04
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.2
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.21
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.38
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	0.087
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.13
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.25
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	0.028
Fluoranthene	mg/kg	2.7	4.1	3100		0.008	0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	0.089
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.26
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.43
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.19
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		11	9.7
Barium	mg/kg	---	110	1500		65	82
Cadmium	mg/kg	---	0.6	5.2		0.21	0.28
Chromium, total	mg/kg	---	16.2	21		16	14
Lead	mg/kg	---	36	107		19	27
Mercury	mg/kg	---	0.06	0.1		0.039	0.03
Selenium	mg/kg	---	0.48	1.3		0.41	0.5
Silver	mg/kg	---	0.55	4.4		<0.28	<0.27
Antimony	mg/kg	---	4.0	5		0.25	0.43
Beryllium	mg/kg	---	0.59	22		0.66	0.67
Calcium	mg/kg	---	9,300	---		65000	49000
Cobalt	mg/kg	---	8.9	20		14	13
Copper	mg/kg	---	19.6	2900		25	23
Cyanide	mg/kg	---	0.51	---		<0.52	<0.52
Iron	mg/kg	---	15,900	15000		24000	22000
Magnesium	mg/kg	---	4,820	325000		31000	26000
Manganese	mg/kg	---	636	630		570	600
Nickel	mg/kg	---	18	100		33	27
Potassium	mg/kg	---	1,268	---		1500	1300
Sodium	mg/kg	---	130	---		450	480
Thallium	mg/kg	---	0.32	2.6		0.38	<0.56
Vanadium	mg/kg	---	25.2	550		20	22
Zinc	mg/kg	---	95	5100		79	85
pH			6.25	9		8.45	8.41
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-9)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-9-B03 (0-5.5)	2645-9-B04 (0-5.5)
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)
				mg/kg pH 6.25-9.0	Date Collected	01/11/2016	01/11/2016
		Chicago	MSAs				
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.22	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		0.013	<0.050
Barium,TCLP	mg/L	---	---	---		0.43	0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		370	350
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.012	0.011
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		0.24	0.29
Magnesium,TCLP	mg/L	---	---	---		110	120
Manganese,TCLP	mg/L	---	---	---		0.48	0.035
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		0.95	1.3
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.13	0.28

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: 500-106258-4

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

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Authorized for release by:

1/22/2016 2:58:26 PM

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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

10



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
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Job ID: 500-106258-4

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-4

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319407 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-9-B01 (0-5.5) (500-106258-11), 2645-9-B01 (0-5.5) Dup (500-106258-12) and 2645-9-B02 (0-5.5) (500-106258-13).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-319407 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-9-B01 (0-5.5) (500-106258-11), (500-106258-F-1-I MS) and (500-106258-F-1-J MSD). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5)

Lab Sample ID: 500-106258-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0093	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0052	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.052	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	480	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-9-B01 (0-5.5) Dup

Lab Sample ID: 500-106258-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.070	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	480	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.57	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5) Dup (Continued)

Lab Sample ID: 500-106258-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	19		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.010	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-9-B02 (0-5.5)

Lab Sample ID: 500-106258-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028		0.021	0.0040	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.012	J	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.019	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.037	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.81		0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.054		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	590	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.038		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B02 (0-5.5) (Continued)

Lab Sample ID: 500-106258-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	11		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.079	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.00020		0.00020	0.00020	mg/L	1		7470A	TCLP
Mercury	0.031		0.020	0.0071	mg/Kg	1	*	7471B	Total/NA
pH	8.19		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-11	2645-9-B01 (0-5.5)	Solid	01/12/16 09:00	01/13/16 10:55
500-106258-12	2645-9-B01 (0-5.5) Dup	Solid	01/12/16 09:05	01/13/16 10:55
500-106258-13	2645-9-B02 (0-5.5)	Solid	01/12/16 08:45	01/13/16 10:55

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5)

Lab Sample ID: 500-106258-11

Date Collected: 01/12/16 09:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Vinyl acetate	<0.0046	*	0.0046	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/13/16 13:05	01/14/16 16:38	1
Dibromofluoromethane	104		75 - 120	01/13/16 13:05	01/14/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	01/13/16 13:05	01/14/16 16:38	1
Toluene-d8 (Surr)	109		75 - 122	01/13/16 13:05	01/14/16 16:38	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	☼	01/14/16 17:22	01/15/16 18:38	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Benzo[a]anthracene	0.0093	J	0.037	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5)

Lab Sample ID: 500-106258-11

Date Collected: 01/12/16 09:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	☼	01/14/16 17:22	01/15/16 18:38	1
Benzo[b]fluoranthene	0.015	J	0.037	0.0081	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Fluoranthene	0.015	J	0.037	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5)

Lab Sample ID: 500-106258-11

Date Collected: 01/12/16 09:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	☼	01/14/16 17:22	01/15/16 18:38	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Phenanthrene	0.0052	J	0.037	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
Pyrene	0.016	J	0.037	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	01/14/16 17:22	01/15/16 18:38	1
2-Fluorophenol	84		25 - 110	01/14/16 17:22	01/15/16 18:38	1
Nitrobenzene-d5	88		25 - 115	01/14/16 17:22	01/15/16 18:38	1
Phenol-d5	72		31 - 110	01/14/16 17:22	01/15/16 18:38	1
Terphenyl-d14	141	X	36 - 134	01/14/16 17:22	01/15/16 18:38	1
2,4,6-Tribromophenol	39		35 - 137	01/14/16 17:22	01/15/16 18:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Arsenic	10		0.54	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Barium	50		0.54	0.098	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Beryllium	0.58		0.21	0.046	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Cadmium	0.052	J	0.11	0.031	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Chromium	13	B	0.54	0.092	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Cobalt	12		0.27	0.060	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Copper	24		0.54	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Iron	19000	B	11	4.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Lead	16		0.27	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Magnesium	34000		5.4	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Calcium	79000	B	110	34	mg/Kg	☼	01/14/16 09:03	01/14/16 19:47	10
Manganese	480	B	0.54	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Nickel	29		0.54	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Selenium	<0.54		0.54	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/16/16 11:11	01/18/16 22:20	1
Thallium	0.42	J	0.54	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Vanadium	18		0.27	0.078	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Zinc	73		1.1	0.34	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Potassium	1500	B	27	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1
Sodium	160		54	7.1	mg/Kg	☼	01/14/16 09:03	01/14/16 17:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Barium	0.49	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 19:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5)

Lab Sample ID: 500-106258-11

Date Collected: 01/12/16 09:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 19:45	1
Magnesium	130		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:45	1
Manganese	0.25		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Potassium	1.7 J		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 19:45	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 19:45	1
Zinc	0.11 J B		0.50	0.020	mg/L		01/17/16 17:00	01/18/16 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.049		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:04	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		01/17/16 17:00	01/19/16 21:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 14:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0063	mg/Kg	☼	01/14/16 15:45	01/15/16 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:15	1
pH	8.13		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5) Dup

Lab Sample ID: 500-106258-12

Date Collected: 01/12/16 09:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/13/16 13:05	01/14/16 17:03	1
Dibromofluoromethane	106		75 - 120	01/13/16 13:05	01/14/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/13/16 13:05	01/14/16 17:03	1
Toluene-d8 (Surr)	112		75 - 122	01/13/16 13:05	01/14/16 17:03	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	☼	01/14/16 17:22	01/15/16 14:36	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5) Dup

Lab Sample ID: 500-106258-12

Date Collected: 01/12/16 09:05

Matrix: Solid

Date Received: 01/13/16 10:55

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	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Methylnaphthalene	<0.038		0.038	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5) Dup

Lab Sample ID: 500-106258-12

Date Collected: 01/12/16 09:05

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.76		0.76	0.36	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	01/14/16 17:22	01/15/16 14:36	1
2-Fluorophenol	79		25 - 110	01/14/16 17:22	01/15/16 14:36	1
Nitrobenzene-d5	84		25 - 115	01/14/16 17:22	01/15/16 14:36	1
Phenol-d5	74		31 - 110	01/14/16 17:22	01/15/16 14:36	1
Terphenyl-d14	112		36 - 134	01/14/16 17:22	01/15/16 14:36	1
2,4,6-Tribromophenol	56		35 - 137	01/14/16 17:22	01/15/16 14:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Arsenic	9.6		0.57	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Barium	51		0.57	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Beryllium	0.61		0.23	0.050	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Cadmium	0.070	J	0.11	0.033	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Chromium	14	B	0.57	0.098	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Cobalt	12		0.29	0.065	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Copper	23		0.57	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Iron	20000	B	11	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Lead	16		0.29	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Magnesium	32000		5.7	2.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Calcium	74000	B	110	37	mg/Kg	☼	01/14/16 09:03	01/14/16 19:51	10
Manganese	480	B	0.57	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Nickel	29		0.57	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/16/16 11:11	01/18/16 22:25	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Vanadium	19		0.29	0.083	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Zinc	74		1.1	0.36	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Potassium	1500	B	29	4.7	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1
Sodium	160		57	7.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Barium	0.47	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B01 (0-5.5) Dup

Lab Sample ID: 500-106258-12

Date Collected: 01/12/16 09:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Copper	0.016	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:07	1
Magnesium	120		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:07	1
Manganese	0.38		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Potassium	2.5		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:07	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:07	1
Zinc	0.14	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.010	J	0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 21:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 14:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0060	mg/Kg	☼	01/14/16 15:45	01/15/16 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	01/19/16 10:00	01/19/16 14:16	1
pH	8.13		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B02 (0-5.5)

Lab Sample ID: 500-106258-13

Date Collected: 01/12/16 08:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.021	0.0040	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Vinyl acetate	<0.0051	*	0.0051	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	01/13/16 13:05	01/14/16 17:28	1
Dibromofluoromethane	107		75 - 120	01/13/16 13:05	01/14/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/14/16 17:28	1
Toluene-d8 (Surr)	110		75 - 122	01/13/16 13:05	01/14/16 17:28	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	☼	01/14/16 17:22	01/15/16 19:02	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Anthracene	0.012	J	0.040	0.0068	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Benzo[a]anthracene	0.019	J	0.040	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B02 (0-5.5)

Lab Sample ID: 500-106258-13

Date Collected: 01/12/16 08:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Benzo[b]fluoranthene	0.16		0.040	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Benzo[g,h,i]perylene	0.037	J	0.040	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Benzo[k]fluoranthene	0.036	J	0.040	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Bis(2-ethylhexyl) phthalate	0.81		0.20	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Chrysene	0.13		0.040	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Fluoranthene	0.16		0.040	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B02 (0-5.5)

Lab Sample ID: 500-106258-13

Date Collected: 01/12/16 08:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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	☼	01/14/16 17:22	01/15/16 19:02	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Phenanthrene	0.054		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
Pyrene	0.19		0.040	0.0080	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	01/14/16 17:22	01/15/16 19:02	1
2-Fluorophenol	75		25 - 110	01/14/16 17:22	01/15/16 19:02	1
Nitrobenzene-d5	72		25 - 115	01/14/16 17:22	01/15/16 19:02	1
Phenol-d5	70		31 - 110	01/14/16 17:22	01/15/16 19:02	1
Terphenyl-d14	133		36 - 134	01/14/16 17:22	01/15/16 19:02	1
2,4,6-Tribromophenol	70		35 - 137	01/14/16 17:22	01/15/16 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Arsenic	8.0		0.55	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Barium	73		0.55	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Beryllium	0.58		0.22	0.047	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Cadmium	0.066	J	0.11	0.032	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Chromium	14	B	0.55	0.094	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Cobalt	11		0.27	0.062	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Copper	23		0.55	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Iron	17000	B	11	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Lead	20		0.27	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Magnesium	23000		5.5	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Calcium	52000	B	110	35	mg/Kg	☼	01/14/16 09:03	01/14/16 19:55	10
Manganese	590	B	0.55	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Nickel	25		0.55	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/16/16 11:11	01/18/16 22:30	1
Thallium	0.29	J	0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Vanadium	22		0.27	0.080	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Zinc	71		1.1	0.35	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Potassium	1500	B	27	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1
Sodium	420		55	7.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Barium	0.78		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Client Sample ID: 2645-9-B02 (0-5.5)

Lab Sample ID: 500-106258-13

Date Collected: 01/12/16 08:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Cobalt	0.038		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Copper	0.015	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:14	1
Magnesium	110		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:14	1
Manganese	14		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Nickel	0.026		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Potassium	11		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:14	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:14	1
Zinc	0.079	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 21:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:31	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		01/18/16 13:30	01/19/16 14:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0071	mg/Kg	☼	01/14/16 15:45	01/15/16 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:16	1
pH	8.19		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-4

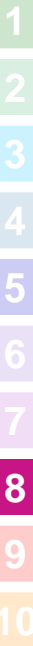
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: _____ Address: _____
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: Matt.Weiss@terracon.com PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-100258
 Chain of Custody Number: _____
 Page 3 of 6
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments				
		<u>11157112</u>												
Project Name		Lab Project #		Parameter		Matrix								
Project Location/State		Lab PM												
<u>Bartlett, IL</u>														
Sampler														
<u>CTK</u>														
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	VOCs	SVOCs	23 TAL Inorganics	TKLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Preservative Key
		Date	Time	Date	Time									
<u>11</u>		<u>2645-9-Bo1</u>	<u>(0-515)</u>	<u>1/12/16</u>	<u>9:00</u>	<u>1</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>HOLD SPLP</u>
<u>12</u>		<u>2645-9-Bo1 Dup</u>	<u>(0-515)</u>	<u>1/12/16</u>	<u>9:05</u>	<u>1</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>Analysis</u>
<u>13</u>		<u>2645-9-Bo2</u>	<u>(0-515)</u>	<u>1/12/16</u>	<u>8:45</u>	<u>1</u>	<u>S</u>	<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
 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>David Kelly</u>	Company <u>Terracon</u>	Date <u>1/12/16</u>	Time <u>5:00</u>	Received By <u>Joe Thomas</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>7:00AM</u>	Lab Courier <u>TA</u>
Relinquished By <u>Joe Thomas</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>9:15AM</u>	Received By <u>Joe Thomas</u>	Company <u>TA</u>	Date <u>1/13/16</u>	Time <u>0915</u>	Shipped _____
Relinquished By <u>K...</u>	Company <u>TA</u>	Date <u>1/13/16</u>	Time <u>1055</u>	Received By <u>Shirley...</u>	Company <u>TA-CPRE</u>	Date <u>1/13/16</u>	Time <u>1055</u>	Hand Delivered _____

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

Client Comments: Meet IL TAC requirements & please HOLD SPLP analysis. Thank you

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-4

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	



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: 500-106201-3
Client Project/Site: IDOT - Bartlett - WO 012

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
1/20/2016 4:46:57 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

2

3

4

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8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	6
Client Sample Results	7
Definitions	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Job ID: 500-106201-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106201-3

Comments

No additional comments.

Receipt

The samples were received on 1/12/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-319260 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was 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.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch 500-319370 recovered outside control limits for the following analyte: 4-Chloroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: (500-106201-F-1-L MS) and (500-106201-F-1-M MSD). 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) 6020A: The internal standard (Tb) was used to report the element (Tl) in batch 500-320159.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B03 (0-5.5)

Lab Sample ID: 500-106201-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0080	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	570		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.013	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.95	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-9-B04 (0-5.5)

Lab Sample ID: 500-106201-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.011	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.040		0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.38		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.50		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.089		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.43		0.037	0.0075	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B04 (0-5.5) (Continued)

Lab Sample ID: 500-106201-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.43	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	49000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	600		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.030		0.019	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106201-11	2645-9-B03 (0-5.5)	Solid	01/11/16 14:30	01/12/16 10:25
500-106201-12	2645-9-B04 (0-5.5)	Solid	01/11/16 14:10	01/12/16 10:25

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B03 (0-5.5)

Lab Sample ID: 500-106201-11

Date Collected: 01/11/16 14:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Bromodichloromethane	<0.0055		0.0055	0.00092	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
2-Butanone (MEK)	<0.0055		0.0055	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,3-Dichloropropane, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Vinyl acetate	<0.0055 *		0.0055	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/12/16 12:10	01/13/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/12/16 12:10	01/13/16 17:20	1
Dibromofluoromethane	108		75 - 120	01/12/16 12:10	01/13/16 17:20	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/12/16 12:10	01/13/16 17:20	1
Toluene-d8 (Surr)	107		75 - 122	01/12/16 12:10	01/13/16 17:20	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	☼	01/13/16 16:52	01/14/16 14:16	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B03 (0-5.5)

Lab Sample ID: 500-106201-11

Date Collected: 01/11/16 14:30

Matrix: Solid

Date Received: 01/12/16 10:25

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	<0.037		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4-Chloroaniline	<0.76 *		0.76	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Fluoranthene	0.0080 J		0.037	0.0070	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B03 (0-5.5)

Lab Sample ID: 500-106201-11

Date Collected: 01/11/16 14:30

Matrix: Solid

Date Received: 01/12/16 10:25

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	<0.76		0.76	0.36	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	01/13/16 16:52	01/14/16 14:16	1
2-Fluorophenol	88		25 - 110	01/13/16 16:52	01/14/16 14:16	1
Nitrobenzene-d5	93		25 - 115	01/13/16 16:52	01/14/16 14:16	1
Phenol-d5	77		31 - 110	01/13/16 16:52	01/14/16 14:16	1
Terphenyl-d14	114		36 - 134	01/13/16 16:52	01/14/16 14:16	1
2,4,6-Tribromophenol	68		35 - 137	01/13/16 16:52	01/14/16 14:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.23	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Arsenic	11		0.55	0.25	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Barium	65		0.55	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Beryllium	0.66		0.22	0.048	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Cadmium	0.21		0.11	0.032	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Chromium	16	B	0.55	0.094	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Cobalt	14		0.27	0.062	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Copper	25		0.55	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Iron	24000		11	4.4	mg/Kg	☼	01/14/16 16:21	01/15/16 19:26	1
Lead	19		0.27	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Magnesium	31000	B	5.5	2.2	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Calcium	65000	B	110	35	mg/Kg	☼	01/13/16 16:12	01/14/16 15:55	10
Manganese	570		0.55	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Nickel	33	B	0.55	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Selenium	0.41	J	0.55	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/14/16 16:21	01/15/16 19:26	1
Thallium	0.38	J	0.55	0.27	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Vanadium	20		0.27	0.080	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Zinc	79		1.1	0.35	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Potassium	1500		27	4.5	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1
Sodium	450		55	7.3	mg/Kg	☼	01/13/16 16:12	01/14/16 14:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Barium	0.43	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B03 (0-5.5)

Lab Sample ID: 500-106201-11

Date Collected: 01/11/16 14:30

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:43	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Copper	0.012	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Iron	0.24	J	0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:43	1
Magnesium	110		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:43	1
Manganese	0.48		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Potassium	0.95	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:43	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:43	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:43	1
Zinc	0.13	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L		01/16/16 10:29	01/19/16 00:56	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		01/14/16 15:51	01/19/16 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:54	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		01/14/16 09:45	01/14/16 12:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0061	mg/Kg	☼	01/12/16 16:30	01/13/16 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/13/16 10:30	01/13/16 14:09	1
pH	8.45		0.200	0.200	SU			01/15/16 14:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B04 (0-5.5)

Lab Sample ID: 500-106201-12

Date Collected: 01/11/16 14:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	01/12/16 12:10	01/13/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/12/16 12:10	01/13/16 17:45	1
Dibromofluoromethane	106		75 - 120	01/12/16 12:10	01/13/16 17:45	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/12/16 12:10	01/13/16 17:45	1
Toluene-d8 (Surr)	108		75 - 122	01/12/16 12:10	01/13/16 17:45	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	☼	01/13/16 16:52	01/14/16 14:40	1
Acenaphthylene	0.011	J	0.037	0.0050	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Anthracene	0.040		0.037	0.0063	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Benzo[a]anthracene	0.20		0.037	0.0051	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B04 (0-5.5)

Lab Sample ID: 500-106201-12

Date Collected: 01/11/16 14:10

Matrix: Solid

Date Received: 01/12/16 10:25

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	0.21		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Benzo[b]fluoranthene	0.38		0.037	0.0081	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Benzo[g,h,i]perylene	0.087		0.037	0.012	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4-Chloroaniline	<0.76 *		0.76	0.18	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Chrysene	0.25		0.037	0.010	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Dibenz(a,h)anthracene	0.028 J		0.037	0.0073	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Fluoranthene	0.50		0.037	0.0070	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Indeno[1,2,3-cd]pyrene	0.089		0.037	0.0097	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B04 (0-5.5)

Lab Sample ID: 500-106201-12

Date Collected: 01/11/16 14:10

Matrix: Solid

Date Received: 01/12/16 10:25

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	☼	01/13/16 16:52	01/14/16 14:40	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Phenanthrene	0.26		0.037	0.0052	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
Pyrene	0.43		0.037	0.0075	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/13/16 16:52	01/14/16 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/13/16 16:52	01/14/16 14:40	1
2-Fluorophenol	78		25 - 110	01/13/16 16:52	01/14/16 14:40	1
Nitrobenzene-d5	86		25 - 115	01/13/16 16:52	01/14/16 14:40	1
Phenol-d5	69		31 - 110	01/13/16 16:52	01/14/16 14:40	1
Terphenyl-d14	111		36 - 134	01/13/16 16:52	01/14/16 14:40	1
2,4,6-Tribromophenol	62		35 - 137	01/13/16 16:52	01/14/16 14:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.23	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Arsenic	9.7		0.56	0.26	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Barium	82		0.56	0.10	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Beryllium	0.67		0.22	0.048	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Cadmium	0.28		0.11	0.032	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Chromium	14	B	0.56	0.096	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Cobalt	13		0.28	0.063	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Copper	23		0.56	0.12	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Iron	22000		11	4.2	mg/Kg	☼	01/14/16 16:21	01/15/16 19:32	1
Lead	27		0.28	0.14	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Magnesium	26000	B	5.6	2.3	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Calcium	49000	B	110	36	mg/Kg	☼	01/13/16 16:12	01/14/16 16:06	10
Manganese	600		0.56	0.11	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Nickel	27	B	0.56	0.15	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Selenium	0.50	J	0.56	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/14/16 16:21	01/15/16 19:32	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Vanadium	22		0.28	0.082	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Zinc	85		1.1	0.35	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Potassium	1300		28	4.6	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1
Sodium	480		56	7.4	mg/Kg	☼	01/13/16 16:12	01/14/16 14:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Barium	0.47	J	0.50	0.050	mg/L		01/14/16 15:51	01/15/16 15:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/16 15:51	01/15/16 15:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/14/16 15:51	01/15/16 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Client Sample ID: 2645-9-B04 (0-5.5)

Lab Sample ID: 500-106201-12

Date Collected: 01/11/16 14:10

Matrix: Solid

Date Received: 01/12/16 10:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/14/16 15:51	01/15/16 15:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Copper	0.011	J	0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Iron	0.29	J	0.40	0.20	mg/L		01/14/16 15:51	01/15/16 15:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/16 15:51	01/15/16 15:48	1
Magnesium	120		2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:48	1
Manganese	0.035		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Potassium	1.3	J	2.5	0.50	mg/L		01/14/16 15:51	01/15/16 15:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/14/16 15:51	01/15/16 15:48	1
Silver	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Vanadium	<0.025		0.025	0.010	mg/L		01/14/16 15:51	01/15/16 15:48	1
Zinc	0.28	J B	0.50	0.020	mg/L		01/14/16 15:51	01/15/16 15:48	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		01/14/16 15:51	01/19/16 19:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/14/16 15:51	01/19/16 19:58	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		01/14/16 09:45	01/14/16 12:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0068	mg/Kg	☼	01/12/16 16:30	01/13/16 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/18/16 10:35	01/18/16 13:08	1
pH	8.41		0.200	0.200	SU			01/15/16 14:48	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106201-3

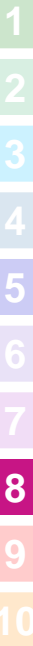
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106201
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
Project Name		Lab Project #		Parameter		Matrix		Matrix		Comments			
Project Location/State		Lab Project #		Parameter		Matrix		Matrix		Comments			
Sampler		Lab PM		Parameter		Matrix		Matrix		Comments			
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	NOCS	SVOCs	STP 23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Comments
			Date	Time									
11		2645-9-B03 (0-5.5)	11/11/16	2130	S	S	✓	✓	✓	✓	✓		HOLD SPLP analysis
12		2645-9-B04 (0-5.5)	11/11/16	2100	S	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>David Kelly</u>	Company <u>Terracon</u>	Date <u>11/11/16</u>	Time <u>8:45</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>11/12/16</u>	Time <u>0845</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>11/12/16</u>	Time <u>1025</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>11/12/16</u>	Time <u>1025</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: Please meet IL TACO Requirements & HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106201-3

Login Number: 106201

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	3.1,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Near IL 59 and Stearns Road intersection from IDOT STA 47+90 to 50+00 and 112+55 to 115+00 (ISGS Site 2645-10)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, B04, and B05 were sampled adjacent to ISGS Site No 2645-10. See Exhibits 4, 7, 4A, 7A and Table 13 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-5. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

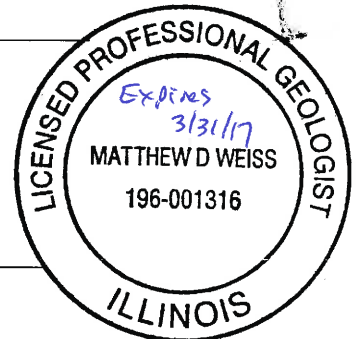
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

8/1/16
Date:



Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-10)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-10-B01 (0-5.5)	2645-10-B02 (0-5.5)	2645-10-B02 (0-5.5) Dup	
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)	(0-5.5) Dup	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
Semivolatile Organic Analytical Parameters									
Acenaphthene	mg/kg	0.09	0.13	570		<0.038	<0.039	<0.038	
Acenaphthylene	mg/kg	0.03	0.07	85		<0.038	<0.039	0.0054	
Anthracene	mg/kg	0.25	0.4	12000		0.0094	0.011	0.037	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.071	0.1	0.29	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.088	0.12	0.32	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.15	0.19	0.54	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.038	0.048	0.13	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.068	0.09	<0.038	
Chrysene	mg/kg	1.2	2.7	88		0.1	0.13	0.35	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.039	0.045	
Fluoranthene	mg/kg	2.7	4.1	3100		0.17	0.2	0.59	
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.039	0.0074	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.04	0.05	0.13	
Phenanthrene	mg/kg	1.3	2.5	210		0.063	0.063	0.16	
Pyrene	mg/kg	1.9	3.0	2300		0.18	0.22	0.62	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		8.6	7.3	7.1	
Barium	mg/kg	---	110	1500		78	78	81	
Cadmium	mg/kg	---	0.6	5.2		0.091	0.12	0.15	
Chromium, total	mg/kg	---	16.2	21		14	13	14	
Lead	mg/kg	---	36	107		34	34	33	
Mercury	mg/kg	---	0.06	0.1		0.026	0.031	0.031	
Selenium	mg/kg	---	0.48	1.3		0.46	0.53	0.6	
Silver	mg/kg	---	0.55	4.4		<0.27	<0.28	<0.29	
Antimony	mg/kg	---	4.0	5		<1.2	<1.1	<1.1	
Beryllium	mg/kg	---	0.59	22		0.6	0.55	0.55	
Calcium	mg/kg	---	9,300	---		23000	25000	51000	
Cobalt	mg/kg	---	8.9	20		11	10	10	
Copper	mg/kg	---	19.6	2900		20	18	18	
Cyanide	mg/kg	---	0.51	---		<0.53	<0.58	<0.59	
Iron	mg/kg	---	15,900	15000		19000	16000	16000	
Magnesium	mg/kg	---	4,820	325000		15000	16000	23000	
Manganese	mg/kg	---	636	630		590	500	560	
Nickel	mg/kg	---	18	100		25	22	21	
Potassium	mg/kg	---	1,268	---		1500	1200	1200	
Sodium	mg/kg	---	130	---		920	500	480	
Thallium	mg/kg	---	0.32	2.6		<0.59	0.27	<0.57	
Vanadium	mg/kg	---	25.2	550		23	22	22	
Zinc	mg/kg	---	95	5100		81	77	72	
pH			6.25	9		8.47	8.27	8.22	
Inorganic Analytical Parameters (SPLP)									
Antimony,SPLP	mg/L	---	---	---		--	--	--	
Arsenic,SPLP	mg/L	---	---	---		--	--	--	
Barium,SPLP	mg/L	---	---	---		--	--	--	
Beryllium,SPLP	mg/L	---	---	---		--	--	--	
Cadmium,SPLP	mg/L	---	---	---		--	--	--	
Calcium,SPLP	mg/L	---	---	---		--	--	--	
Chromium,SPLP	mg/L	---	---	---		--	--	--	
Cobalt,SPLP	mg/L	---	---	---		--	--	--	
Copper,SPLP	mg/L	---	---	---		--	--	--	
Iron,SPLP	mg/L	---	---	---		--	--	--	
Lead,SPLP	mg/L	---	---	---		--	--	--	
Magnesium,SPLP	mg/L	---	---	---		--	--	--	

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-10)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-10-B01 (0-5.5)	2645-10-B02 (0-5.5)	2645-10-B02 (0-5.5) Dup
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)	(0-5.5) Dup
				mg/kg	Date Collected	01/12/2016	01/12/2016	01/12/2016
		pH 6.25-9.0	Chicago	MSAs				
Manganese,SPLP	mg/L	---	---	---		2	0.56	0.16
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.67	0.6	0.58
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		330	340	340
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.02	0.013	0.011
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		160	160	150
Manganese,TCLP	mg/L	---	---	---		1	0.33	0.23
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		8.5	2.7	2.3
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	---	---	---		0.073	0.53	0.15

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-10)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-10-B03 (0-5.5)	2645-10-B04 (0-5.5)	2645-10-B05 (0-5.5)	
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)	(0-5.5)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
Semivolatile Organic Analytical Parameters									
Acenaphthene	mg/kg	0.09	0.13	570		0.011	<0.039	<0.040	
Acenaphthylene	mg/kg	0.03	0.07	85		0.0071	<0.039	<0.040	
Anthracene	mg/kg	0.25	0.4	12000		0.044	0.033	0.011	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.35	0.27	0.1	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.31	0.27	0.12	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.71	<0.039	0.22	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.17	0.12	0.06	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.6	0.22	
Chrysene	mg/kg	1.2	2.7	88		0.43	0.36	0.14	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	0.039	<0.040	
Fluoranthene	mg/kg	2.7	4.1	3100		0.74	0.66	0.25	
Fluorene	mg/kg	0.1	0.18	560		0.012	0.0086	<0.040	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.16	0.12	0.059	
Phenanthrene	mg/kg	1.3	2.5	210		0.22	0.21	0.085	
Pyrene	mg/kg	1.9	3.0	2300		0.79	0.67	0.22	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		7.1	8.2	9	
Barium	mg/kg	---	110	1500		64	79	92	
Cadmium	mg/kg	---	0.6	5.2		0.18	0.14	0.085	
Chromium, total	mg/kg	---	16.2	21		12	14	15	
Lead	mg/kg	---	36	107		27	44	23	
Mercury	mg/kg	---	0.06	0.1		0.02	0.031	0.03	
Selenium	mg/kg	---	0.48	1.3		<0.55	<0.55	0.31	
Silver	mg/kg	---	0.55	4.4		<0.29	<0.29	<0.28	
Antimony	mg/kg	---	4.0	5		<1.1	<1.1	<1.1	
Beryllium	mg/kg	---	0.59	22		0.52	0.64	0.63	
Calcium	mg/kg	---	9,300	---		62000	20000	18000	
Cobalt	mg/kg	---	8.9	20		8.9	11	12	
Copper	mg/kg	---	19.6	2900		17	24	22	
Cyanide	mg/kg	---	0.51	---		<0.56	<0.54	<0.50	
Iron	mg/kg	---	15,900	15000		15000	18000	19000	
Magnesium	mg/kg	---	4,820	325000		28000	13000	11000	
Manganese	mg/kg	---	636	630		510	480	690	
Nickel	mg/kg	---	18	100		20	24	25	
Potassium	mg/kg	---	1,268	---		1100	1300	1400	
Sodium	mg/kg	---	130	---		120	130	91	
Thallium	mg/kg	---	0.32	2.6		<0.55	0.36	0.27	
Vanadium	mg/kg	---	25.2	550		19	23	24	
Zinc	mg/kg	---	95	5100		67	100	80	
pH			6.25	9		7.9	7.95	7.78	
Inorganic Analytical Parameters (SPLP)									
Antimony,SPLP	mg/L	---	---	---		--	--	--	
Arsenic,SPLP	mg/L	---	---	---		--	--	--	
Barium,SPLP	mg/L	---	---	---		--	--	--	
Beryllium,SPLP	mg/L	---	---	---		--	--	--	
Cadmium,SPLP	mg/L	---	---	---		--	--	--	
Calcium,SPLP	mg/L	---	---	---		--	--	--	
Chromium,SPLP	mg/L	---	---	---		--	--	--	
Cobalt,SPLP	mg/L	---	---	---		--	--	--	
Copper,SPLP	mg/L	---	---	---		--	--	--	
Iron,SPLP	mg/L	---	---	---		--	--	--	
Lead,SPLP	mg/L	---	---	---		--	--	--	
Magnesium,SPLP	mg/L	---	---	---		--	--	--	

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-10)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-10-B03 (0-5.5)	2645-10-B04 (0-5.5)	2645-10-B05 (0-5.5)
				CCDD	Sample Depth (feet)	(0-5.5)	(0-5.5)	(0-5.5)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
		Chicago	MSAs					
Manganese,SPLP	mg/L	---	---	---		--	--	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.58	0.53	0.66
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		390	330	350
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	0.014
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		160	160	160
Manganese,TCLP	mg/L	---	---	---		0.15	0.039	0.032
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.8	1.4	3.6
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	---	---	---		0.4	0.27	0.25

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: 500-106258-5

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

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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

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	10
Client Sample Results	11
Definitions	35
Certification Summary	36
Chain of Custody	37
Receipt Checklists	38

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Job ID: 500-106258-5

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-5

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319407 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-10-B01 (0-5.5) (500-106258-14), 2645-10-B02 (0-5.5) (500-106258-15), 2645-10-B02 (0-5.5) Dup (500-106258-16), 2645-10-B03 (0-5.5) (500-106258-17), 2645-10-B04 (0-5.5) (500-106258-18) and 2645-10-B05 (0-5.5) (500-106258-19).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-319407 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-10-B02 (0-5.5) Dup (500-106258-16), 2645-10-B03 (0-5.5) (500-106258-17), 2645-10-B05 (0-5.5) (500-106258-19), (500-106258-F-1-I MS) and (500-106258-F-1-J MSD). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B01 (0-5.5)

Lab Sample ID: 500-106258-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0094	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.071		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.088		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.068		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.17		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.040		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.063		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.091	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	920		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	8.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.073	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-10-B02 (0-5.5)

Lab Sample ID: 500-106258-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.10		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.19		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.048		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) (Continued)

Lab Sample ID: 500-106258-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.20		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.063		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.22		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.53	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	500	B	0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.53	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-10-B02 (0-5.5) Dup

Lab Sample ID: 500-106258-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0054	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.037	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.29		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.32		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.54		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.35		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.045		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.59		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0074	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.62		0.038	0.0077	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) Dup (Continued)

Lab Sample ID: 500-106258-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	560	B	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	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.22		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-10-B03 (0-5.5)

Lab Sample ID: 500-106258-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0071	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.044		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.35		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.31		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.71		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.43		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.74		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.79		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.55	0.095	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B03 (0-5.5) (Continued)

Lab Sample ID: 500-106258-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.9		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	510	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.020		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-10-B04 (0-5.5)

Lab Sample ID: 500-106258-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.033	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.60		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.36		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.66		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.21		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.67		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	44		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	480	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.55	0.27	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B04 (0-5.5) (Continued)

Lab Sample ID: 500-106258-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	23		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	B	27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.031		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-10-B05 (0-5.5)

Lab Sample ID: 500-106258-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.10		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.22		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.25		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.085		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.22		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.0		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.085	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	690	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	91		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B05 (0-5.5) (Continued)

Lab Sample ID: 500-106258-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.030		0.020	0.0071	mg/Kg	1	*	7471B	Total/NA
pH	7.78		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-14	2645-10-B01 (0-5.5)	Solid	01/12/16 10:40	01/13/16 10:55
500-106258-15	2645-10-B02 (0-5.5)	Solid	01/12/16 10:15	01/13/16 10:55
500-106258-16	2645-10-B02 (0-5.5) Dup	Solid	01/12/16 10:20	01/13/16 10:55
500-106258-17	2645-10-B03 (0-5.5)	Solid	01/12/16 10:00	01/13/16 10:55
500-106258-18	2645-10-B04 (0-5.5)	Solid	01/12/16 09:40	01/13/16 10:55
500-106258-19	2645-10-B05 (0-5.5)	Solid	01/12/16 09:25	01/13/16 10:55



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B01 (0-5.5)

Lab Sample ID: 500-106258-14

Date Collected: 01/12/16 10:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Bromodichloromethane	<0.0045		0.0045	0.00075	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Carbon tetrachloride	<0.0045		0.0045	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Toluene	<0.0045		0.0045	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Vinyl acetate	<0.0045	*	0.0045	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/13/16 13:05	01/14/16 17:53	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/14/16 17:53	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/13/16 13:05	01/14/16 17:53	1
Toluene-d8 (Surr)	109		75 - 122	01/13/16 13:05	01/14/16 17:53	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	☼	01/14/16 17:22	01/15/16 19:26	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Anthracene	0.0094	J	0.038	0.0064	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Benzo[a]anthracene	0.071		0.038	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B01 (0-5.5)

Lab Sample ID: 500-106258-14

Date Collected: 01/12/16 10:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.088		0.038	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Benzo[b]fluoranthene	0.15		0.038	0.0082	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Benzo[g,h,i]perylene	0.038		0.038	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Benzo[k]fluoranthene	0.068		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Chrysene	0.10		0.038	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Fluoranthene	0.17		0.038	0.0071	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Indeno[1,2,3-cd]pyrene	0.040		0.038	0.0099	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B01 (0-5.5)

Lab Sample ID: 500-106258-14

Date Collected: 01/12/16 10:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.5

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	☼	01/14/16 17:22	01/15/16 19:26	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Phenanthrene	0.063		0.038	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
Pyrene	0.18		0.038	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/14/16 17:22	01/15/16 19:26	1
2-Fluorophenol	78		25 - 110	01/14/16 17:22	01/15/16 19:26	1
Nitrobenzene-d5	82		25 - 115	01/14/16 17:22	01/15/16 19:26	1
Phenol-d5	65		31 - 110	01/14/16 17:22	01/15/16 19:26	1
Terphenyl-d14	122		36 - 134	01/14/16 17:22	01/15/16 19:26	1
2,4,6-Tribromophenol	43		35 - 137	01/14/16 17:22	01/15/16 19:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Arsenic	8.6		0.59	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Barium	78		0.59	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Beryllium	0.60		0.23	0.051	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Cadmium	0.091	J	0.12	0.034	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Chromium	14	B	0.59	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Cobalt	11		0.29	0.066	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Copper	20		0.59	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Iron	19000	B	12	4.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Lead	34		0.29	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Magnesium	15000		5.9	2.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Calcium	23000	B	12	3.8	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Manganese	590	B	0.59	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Nickel	25		0.59	0.16	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Selenium	0.46	J	0.59	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/16/16 11:11	01/18/16 22:35	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Vanadium	23		0.29	0.085	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Zinc	81		1.2	0.37	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Potassium	1500	B	29	4.8	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1
Sodium	920		59	7.7	mg/Kg	☼	01/14/16 09:03	01/14/16 18:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Barium	0.67		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B01 (0-5.5)

Lab Sample ID: 500-106258-14

Date Collected: 01/12/16 10:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:21	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Copper	0.020	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:21	1
Magnesium	160		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:21	1
Manganese	1.0		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Potassium	8.5		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:21	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:21	1
Zinc	0.073	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.0		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:41	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		01/17/16 17:00	01/19/16 21:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:36	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		01/18/16 13:30	01/19/16 14:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0066	mg/Kg	☼	01/14/16 15:45	01/15/16 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	01/19/16 10:00	01/19/16 14:16	1
pH	8.47		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5)

Lab Sample ID: 500-106258-15

Date Collected: 01/12/16 10:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Vinyl acetate	<0.0049	*	0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/13/16 13:05	01/14/16 18:18	1
Dibromofluoromethane	108		75 - 120	01/13/16 13:05	01/14/16 18:18	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	01/13/16 13:05	01/14/16 18:18	1
Toluene-d8 (Surr)	111		75 - 122	01/13/16 13:05	01/14/16 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	☼	01/14/16 17:22	01/15/16 19:51	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Anthracene	0.011	J	0.039	0.0066	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Benzo[a]anthracene	0.10		0.039	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5)

Lab Sample ID: 500-106258-15

Date Collected: 01/12/16 10:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Benzo[b]fluoranthene	0.19		0.039	0.0085	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Benzo[g,h,i]perylene	0.048		0.039	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Chrysene	0.13		0.039	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Fluoranthene	0.20		0.039	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Indeno[1,2,3-cd]pyrene	0.050		0.039	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5)

Lab Sample ID: 500-106258-15

Date Collected: 01/12/16 10:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.2

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	☼	01/14/16 17:22	01/15/16 19:51	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Phenanthrene	0.063		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
Pyrene	0.22		0.039	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	01/14/16 17:22	01/15/16 19:51	1
2-Fluorophenol	86		25 - 110	01/14/16 17:22	01/15/16 19:51	1
Nitrobenzene-d5	92		25 - 115	01/14/16 17:22	01/15/16 19:51	1
Phenol-d5	67		31 - 110	01/14/16 17:22	01/15/16 19:51	1
Terphenyl-d14	131		36 - 134	01/14/16 17:22	01/15/16 19:51	1
2,4,6-Tribromophenol	35		35 - 137	01/14/16 17:22	01/15/16 19:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Arsenic	7.3		0.53	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Barium	78		0.53	0.096	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Beryllium	0.55		0.21	0.045	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Cadmium	0.12		0.11	0.030	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Chromium	13 B		0.53	0.090	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Cobalt	10		0.26	0.059	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Copper	18		0.53	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Iron	16000 B		11	4.0	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Lead	34		0.26	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Magnesium	16000		5.3	2.1	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Calcium	25000 B		11	3.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Manganese	500 B		0.53	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Nickel	22		0.53	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Selenium	0.53		0.53	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/16/16 11:11	01/18/16 22:40	1
Thallium	0.27 J		0.53	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Vanadium	22		0.26	0.077	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Zinc	77		1.1	0.33	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Potassium	1200 B		26	4.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1
Sodium	500		53	6.9	mg/Kg	☼	01/14/16 09:03	01/14/16 18:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Barium	0.60		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5)

Lab Sample ID: 500-106258-15

Date Collected: 01/12/16 10:15

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Copper	0.013	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:27	1
Magnesium	160		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:27	1
Manganese	0.33		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Potassium	2.7		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:27	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:27	1
Zinc	0.53	B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.56		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:47	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		01/17/16 17:00	01/19/16 21:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 14:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0062	mg/Kg	☼	01/14/16 15:45	01/15/16 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:17	1
pH	8.27		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) Dup

Lab Sample ID: 500-106258-16

Date Collected: 01/12/16 10:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Vinyl acetate	<0.0047 *		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/13/16 13:05	01/14/16 18:43	1
Dibromofluoromethane	108		75 - 120	01/13/16 13:05	01/14/16 18:43	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/13/16 13:05	01/14/16 18:43	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/14/16 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	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Acenaphthylene	0.0054	J	0.038	0.0051	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Anthracene	0.037	J	0.038	0.0064	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Benzo[a]anthracene	0.29		0.038	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) Dup

Lab Sample ID: 500-106258-16

Date Collected: 01/12/16 10:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.32		0.038	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Benzo[b]fluoranthene	0.54		0.038	0.0083	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Benzo[g,h,i]perylene	0.13		0.038	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Chrysene	0.35		0.038	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Dibenz(a,h)anthracene	0.045		0.038	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Fluoranthene	0.59		0.038	0.0071	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Fluorene	0.0074 J		0.038	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Indeno[1,2,3-cd]pyrene	0.13		0.038	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) Dup

Lab Sample ID: 500-106258-16

Date Collected: 01/12/16 10:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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	☼	01/14/16 17:22	01/15/16 20:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Phenanthrene	0.16		0.038	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
Pyrene	0.62		0.038	0.0077	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	01/14/16 17:22	01/15/16 20:15	1
2-Fluorophenol	82		25 - 110	01/14/16 17:22	01/15/16 20:15	1
Nitrobenzene-d5	85		25 - 115	01/14/16 17:22	01/15/16 20:15	1
Phenol-d5	66		31 - 110	01/14/16 17:22	01/15/16 20:15	1
Terphenyl-d14	137	X	36 - 134	01/14/16 17:22	01/15/16 20:15	1
2,4,6-Tribromophenol	48		35 - 137	01/14/16 17:22	01/15/16 20:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Arsenic	7.1		0.57	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Barium	81		0.57	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Beryllium	0.55		0.23	0.050	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Chromium	14	B	0.57	0.099	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Cobalt	10		0.29	0.065	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Copper	18		0.57	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Iron	16000	B	11	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Lead	33		0.29	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Magnesium	23000		5.7	2.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Calcium	51000	B	110	37	mg/Kg	☼	01/14/16 09:03	01/14/16 20:08	10
Manganese	560	B	0.57	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Nickel	21		0.57	0.16	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Selenium	0.60		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/16/16 11:11	01/18/16 22:45	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Vanadium	22		0.29	0.084	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Zinc	72		1.1	0.36	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Potassium	1200	B	29	4.7	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1
Sodium	480		57	7.6	mg/Kg	☼	01/14/16 09:03	01/14/16 18:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Barium	0.58		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B02 (0-5.5) Dup

Lab Sample ID: 500-106258-16

Date Collected: 01/12/16 10:20

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:34	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Copper	0.011	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:34	1
Magnesium	150		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:34	1
Manganese	0.23		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Potassium	2.3	J	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:34	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:34	1
Zinc	0.15	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 21:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 14:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0069	mg/Kg	☼	01/14/16 15:45	01/15/16 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:18	1
pH	8.22		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B03 (0-5.5)

Lab Sample ID: 500-106258-17

Date Collected: 01/12/16 10:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Bromodichloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/13/16 13:05	01/14/16 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/13/16 13:05	01/14/16 19:08	1
Dibromofluoromethane	106		75 - 120	01/13/16 13:05	01/14/16 19:08	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/13/16 13:05	01/14/16 19:08	1
Toluene-d8 (Surr)	110		75 - 122	01/13/16 13:05	01/14/16 19:08	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	0.0067	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Acenaphthylene	0.0071	J	0.037	0.0049	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Anthracene	0.044		0.037	0.0062	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Benzo[a]anthracene	0.35		0.037	0.0050	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B03 (0-5.5)

Lab Sample ID: 500-106258-17

Date Collected: 01/12/16 10:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	0.31		0.037	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Benzo[b]fluoranthene	0.71		0.037	0.0081	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Benzo[g,h,i]perylene	0.17		0.037	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Chrysene	0.43		0.037	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Fluoranthene	0.74		0.037	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Fluorene	0.012 J		0.037	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Indeno[1,2,3-cd]pyrene	0.16		0.037	0.0097	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B03 (0-5.5)

Lab Sample ID: 500-106258-17

Date Collected: 01/12/16 10:00

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.75		0.75	0.36	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Phenanthrene	0.22		0.037	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
Pyrene	0.79		0.037	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	01/14/16 17:22	01/15/16 20:39	1
2-Fluorophenol	81		25 - 110	01/14/16 17:22	01/15/16 20:39	1
Nitrobenzene-d5	87		25 - 115	01/14/16 17:22	01/15/16 20:39	1
Phenol-d5	62		31 - 110	01/14/16 17:22	01/15/16 20:39	1
Terphenyl-d14	121		36 - 134	01/14/16 17:22	01/15/16 20:39	1
2,4,6-Tribromophenol	20	X	35 - 137	01/14/16 17:22	01/15/16 20:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Arsenic	7.1		0.55	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Barium	64		0.55	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Beryllium	0.52		0.22	0.048	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Cadmium	0.18		0.11	0.032	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Chromium	12	B	0.55	0.095	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Cobalt	8.9		0.28	0.062	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Copper	17		0.55	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Iron	15000	B	11	4.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Lead	27		0.28	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Magnesium	28000		5.5	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Calcium	62000	B	110	36	mg/Kg	☼	01/14/16 09:03	01/14/16 20:19	10
Manganese	510	B	0.55	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Nickel	20		0.55	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/16/16 11:11	01/18/16 22:50	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Vanadium	19		0.28	0.081	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Zinc	67		1.1	0.35	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Potassium	1100	B	28	4.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1
Sodium	120		55	7.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Barium	0.58		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B03 (0-5.5)

Lab Sample ID: 500-106258-17

Date Collected: 01/12/16 10:00

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:41	1
Magnesium	160		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:41	1
Manganese	0.15		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Potassium	2.8		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:41	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:41	1
Zinc	0.40	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 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		01/17/16 17:00	01/19/16 21:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 15:01	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	☼	01/14/16 15:45	01/15/16 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/19/16 10:00	01/19/16 14:18	1
pH	7.90		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B04 (0-5.5)

Lab Sample ID: 500-106258-18

Date Collected: 01/12/16 09:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Vinyl acetate	<0.0049	*	0.0049	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/13/16 13:05	01/14/16 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	01/13/16 13:05	01/14/16 19:33	1
Dibromofluoromethane	109		75 - 120	01/13/16 13:05	01/14/16 19:33	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/13/16 13:05	01/14/16 19:33	1
Toluene-d8 (Surr)	109		75 - 122	01/13/16 13:05	01/14/16 19:33	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	☼	01/14/16 17:22	01/15/16 21:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Anthracene	0.033	J	0.039	0.0066	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B04 (0-5.5)

Lab Sample ID: 500-106258-18

Date Collected: 01/12/16 09:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.27		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Benzo[g,h,i]perylene	0.12		0.039	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Benzo[k]fluoranthene	0.60		0.039	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Chrysene	0.36		0.039	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Dibenz(a,h)anthracene	0.039		0.039	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Fluoranthene	0.66		0.039	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Fluorene	0.0086 J		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Indeno[1,2,3-cd]pyrene	0.12		0.039	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B04 (0-5.5)

Lab Sample ID: 500-106258-18

Date Collected: 01/12/16 09:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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	☼	01/14/16 17:22	01/15/16 21:03	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Phenanthrene	0.21		0.039	0.0055	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
Pyrene	0.67		0.039	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	01/14/16 17:22	01/15/16 21:03	1
2-Fluorophenol	84		25 - 110	01/14/16 17:22	01/15/16 21:03	1
Nitrobenzene-d5	90		25 - 115	01/14/16 17:22	01/15/16 21:03	1
Phenol-d5	74		31 - 110	01/14/16 17:22	01/15/16 21:03	1
Terphenyl-d14	129		36 - 134	01/14/16 17:22	01/15/16 21:03	1
2,4,6-Tribromophenol	70		35 - 137	01/14/16 17:22	01/15/16 21:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Arsenic	8.2		0.55	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Barium	79		0.55	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Beryllium	0.64		0.22	0.048	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Cadmium	0.14		0.11	0.032	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Chromium	14 B		0.55	0.095	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Cobalt	11		0.27	0.062	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Copper	24		0.55	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Iron	18000 B		11	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Lead	44		0.27	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Magnesium	13000		5.5	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Calcium	20000 B		11	3.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Manganese	480 B		0.55	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Nickel	24		0.55	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/16/16 11:11	01/18/16 22:55	1
Thallium	0.36 J		0.55	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Vanadium	23		0.27	0.080	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Zinc	100		1.1	0.35	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Potassium	1300 B		27	4.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1
Sodium	130		55	7.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Barium	0.53		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B04 (0-5.5)

Lab Sample ID: 500-106258-18

Date Collected: 01/12/16 09:40

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Copper	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:48	1
Magnesium	160		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:48	1
Manganese	0.039		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Potassium	1.4 J		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:48	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:48	1
Zinc	0.27 J B		0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:48	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		01/17/16 17:00	01/19/16 21:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 21:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 15:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0064	mg/Kg	☼	01/14/16 15:45	01/15/16 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/19/16 10:00	01/19/16 14:18	1
pH	7.95		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B05 (0-5.5)

Lab Sample ID: 500-106258-19

Date Collected: 01/12/16 09:25

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	01/13/16 13:05	01/14/16 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/13/16 13:05	01/14/16 19:58	1
Dibromofluoromethane	103		75 - 120	01/13/16 13:05	01/14/16 19:58	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/13/16 13:05	01/14/16 19:58	1
Toluene-d8 (Surr)	109		75 - 122	01/13/16 13:05	01/14/16 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Anthracene	0.011	J	0.040	0.0068	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Benzo[a]anthracene	0.10		0.040	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B05 (0-5.5)

Lab Sample ID: 500-106258-19

Date Collected: 01/12/16 09:25

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.040	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Benzo[b]fluoranthene	0.22		0.040	0.0087	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Benzo[g,h,i]perylene	0.060		0.040	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Benzo[k]fluoranthene	0.22		0.040	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Chrysene	0.14		0.040	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Fluoranthene	0.25		0.040	0.0075	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Indeno[1,2,3-cd]pyrene	0.059		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B05 (0-5.5)

Lab Sample ID: 500-106258-19

Date Collected: 01/12/16 09:25

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.4

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	☼	01/14/16 17:22	01/15/16 15:00	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Phenanthrene	0.085		0.040	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
Pyrene	0.22		0.040	0.0080	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41		25 - 119	01/14/16 17:22	01/15/16 15:00	1
2-Fluorophenol	43		25 - 110	01/14/16 17:22	01/15/16 15:00	1
Nitrobenzene-d5	45		25 - 115	01/14/16 17:22	01/15/16 15:00	1
Phenol-d5	38		31 - 110	01/14/16 17:22	01/15/16 15:00	1
Terphenyl-d14	60		36 - 134	01/14/16 17:22	01/15/16 15:00	1
2,4,6-Tribromophenol	28	X	35 - 137	01/14/16 17:22	01/15/16 15:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Arsenic	9.0		0.54	0.25	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Barium	92		0.54	0.098	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Beryllium	0.63		0.21	0.047	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Cadmium	0.085	J	0.11	0.031	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Chromium	15	B	0.54	0.092	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Cobalt	12		0.27	0.061	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Copper	22		0.54	0.12	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Iron	19000	B	11	4.1	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Lead	23		0.27	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Magnesium	11000		5.4	2.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Calcium	18000	B	11	3.5	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Manganese	690	B	0.54	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Nickel	25		0.54	0.15	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Selenium	0.31	J	0.54	0.27	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/16/16 11:11	01/18/16 22:59	1
Thallium	0.27	J	0.54	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Vanadium	24		0.27	0.078	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Zinc	80		1.1	0.34	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Potassium	1400	B	27	4.4	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1
Sodium	91		54	7.1	mg/Kg	☼	01/14/16 09:03	01/14/16 18:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Barium	0.66		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 20:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Client Sample ID: 2645-10-B05 (0-5.5)

Lab Sample ID: 500-106258-19

Date Collected: 01/12/16 09:25

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Copper	0.014	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 20:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 20:54	1
Magnesium	160		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:54	1
Manganese	0.032		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Potassium	3.6		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 20:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 20:54	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 20:54	1
Zinc	0.25	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 22:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 22:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 15:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.0071	mg/Kg	☼	01/14/16 15:45	01/15/16 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	01/19/16 10:00	01/19/16 14:19	1
pH	7.78		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance 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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-5

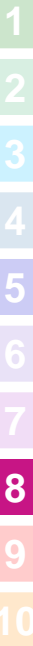
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Report To (optional)
 Contact: Math Weiss
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 Address: _____
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 E-Mail: mathweiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106258
 Chain of Custody Number: _____
 Page 4 of 6
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
		<u>11757112</u>										
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key		
		<u>Bartlett, IL</u>				<u>CTK</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		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SUOCS	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics
			Date	Time								
<u>14</u>		<u>2645-10-B01 (0-5.5)</u>	<u>1/12/16</u>	<u>10:40</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>15</u>		<u>2645-10-B02 (0-5.5)</u>	<u>1/12/16</u>	<u>10:15</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>16</u>		<u>2645-10-B02 Rp (0-5.5)</u>	<u>1/12/16</u>	<u>10:20</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>17</u>		<u>2645-10-B03 (0-5.5)</u>	<u>1/12/16</u>	<u>10:00</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>18</u>		<u>2645-10-B04 (0-5.5)</u>	<u>1/12/16</u>	<u>9:40</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>19</u>		<u>2645-10-B05 (0-5.5)</u>	<u>1/12/16</u>	<u>9:25</u>	<u>S</u>		<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
 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>1/12/16</u>	Time <u>5:00</u>	Received By <u>Joe Trimmer</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>7:00AM</u>
Relinquished By <u>Joe Trimmer</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>9:15AM</u>	Received By <u>Joe Trimmer</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>0915</u>
Relinquished By <u>Joe Trimmer</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>10:55</u>	Received By <u>Shawn Scott</u>	Company <u>TA</u>	Date <u>1/13/16</u>	Time <u>10:55</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:
Meet IL TACO Requirements & Please
HOLD SPLP Analysis. Thank you.

Lab Comments:
1/13/16
10:55



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-5

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 104+16 to 107+15 (ISGS Site 2645-15)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, and B03 were sampled adjacent to ISGS Site No 2645-15. See Exhibits 6, 6B and Table 15 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-6. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

Matt Weiss
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

8/1/16
 Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-15)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-15-B01 (0-1)	2645-15-B02 (0-1)	2645-15-B03 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)	(0-1)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
Chicago		MSAs						
Semivolatile Organic Analytical Parameters								
Anthracene	mg/kg	0.25	0.4	12000		0.0071	<0.039	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.07	0.019	0.062
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.084	0.027	0.076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.16	0.046	0.13
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.036	<0.039	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.06	0.022	0.058
Chrysene	mg/kg	1.2	2.7	88		0.097	0.032	0.081
Fluoranthene	mg/kg	2.7	4.1	3100		0.14	0.055	0.15
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.037	<0.039	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.045	0.021	0.053
Pyrene	mg/kg	1.9	3.0	2300		0.15	0.043	0.12
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		5.9	7.2	7.6
Barium	mg/kg	---	110	1500		96	120	93
Cadmium	mg/kg	---	0.6	5.2		0.13	0.16	0.2
Chromium, total	mg/kg	---	16.2	21		17	17	17
Lead	mg/kg	---	36	107		32	30	34
Mercury	mg/kg	---	0.06	0.1		0.031	0.037	0.035
Selenium	mg/kg	---	0.48	1.3		0.59	0.73	0.57
Silver	mg/kg	---	0.55	4.4		<0.29	<0.32	<0.28
Antimony	mg/kg	---	4.0	5		<1.0	<1.3	<1.1
Beryllium	mg/kg	---	0.59	22		0.69	0.65	0.63
Calcium	mg/kg	---	9,300	---		11000	4600	12000
Cobalt	mg/kg	---	8.9	20		9.9	11	11
Copper	mg/kg	---	19.6	2900		20	16	19
Cyanide	mg/kg	---	0.51	---		0.22	<0.63	0.18
Iron	mg/kg	---	15,900	15000		16000	17000	17000
Magnesium	mg/kg	---	4,820	325000		7600	3500	7900
Manganese	mg/kg	---	636	630		360	670	550
Nickel	mg/kg	---	18	100		23	20	22
Potassium	mg/kg	---	1,268	---		1400	1300	1300
Sodium	mg/kg	---	130	---		680	530	290
Thallium	mg/kg	---	0.32	2.6		<0.52	<0.63	<0.57
Vanadium	mg/kg	---	25.2	550		25	29	25
Zinc	mg/kg	---	95	5100		81	70	75
pH			6.25	9		8.23	7.96	7.72
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.39	--	0.34
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-15)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-15-B01 (0-1)	2645-15-B02 (0-1)	2645-15-B03 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)	(0-1)
				mg/kg pH 6.25-9.0	Date Collected	01/12/2016	01/12/2016	01/12/2016
		Chicago	MSAs					
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.58	0.49	0.63
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		300	98	260
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.013	0.021	0.017
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	0.24	<0.40
Magnesium,TCLP	mg/L	---	---	---		140	42	130
Manganese,TCLP	mg/L	---	---	---		0.27	0.054	0.34
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		5.7	2.3	4.2
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	---	---	---		0.07	0.16	0.17

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: 500-106258-6

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/22/2016 3:00:23 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

Review your project
results through

TotalAccess

Have a Question?



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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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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
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Job ID: 500-106258-6

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106258-6

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319577 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2645-15-B01 (0-1) (500-106258-20), 2645-15-B02 (0-1) (500-106258-21) and 2645-15-B03 (0-1) (500-106258-22).

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-319577 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was 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.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: (500-106258-F-1-I MS), (500-106258-F-1-J MSD) and (500-106258-F-22-E MS). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-319437 and analytical batch 500-319599 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The method blank for preparation batch 500-319601 and analytical batch 500-319728 contained Chromium and Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B01 (0-1)

Lab Sample ID: 500-106258-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0071	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.070		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.084		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.060		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.097		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.037	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.045		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	96	F1	0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	F1	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B F1	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	F1	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	B F1 F2	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	680	F1	52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.22	J	0.54	0.18	mg/Kg	1	☼	9014	Total/NA
pH	8.23		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-15-B02 (0-1)

Lab Sample ID: 500-106258-21

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	0.027	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.046		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.039	0.0074	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B02 (0-1) (Continued)

Lab Sample ID: 500-106258-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.021	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.043		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.32	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	4600		13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.63	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.32	0.093	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	530	B	63	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	98	B	5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	42	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.037		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-15-B03 (0-1)

Lab Sample ID: 500-106258-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.062		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.076		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13	F1 F2	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.058	F1	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.081		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15	F1	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12	F1	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		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	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B03 (0-1) (Continued)

Lab Sample ID: 500-106258-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	34		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7900		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	550		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260	B	5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130	B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.18	J	0.52	0.17	mg/Kg	1	☼	9014	Total/NA
pH	7.72		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-20	2645-15-B01 (0-1)	Solid	01/12/16 14:30	01/13/16 10:55
500-106258-21	2645-15-B02 (0-1)	Solid	01/12/16 14:45	01/13/16 10:55
500-106258-22	2645-15-B03 (0-1)	Solid	01/12/16 14:55	01/13/16 10:55

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B01 (0-1)

Lab Sample ID: 500-106258-20

Date Collected: 01/12/16 14:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Vinyl acetate	<0.0048	*	0.0048	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/13/16 13:05	01/15/16 12:32	1
Dibromofluoromethane	107		75 - 120	01/13/16 13:05	01/15/16 12:32	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/15/16 12:32	1
Toluene-d8 (Surr)	108		75 - 122	01/13/16 13:05	01/15/16 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Anthracene	0.0071	J	0.041	0.0069	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Benzo[a]anthracene	0.070		0.041	0.0056	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B01 (0-1)

Lab Sample ID: 500-106258-20

Date Collected: 01/12/16 14:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.084		0.041	0.0080	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Benzo[b]fluoranthene	0.16		0.041	0.0089	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Benzo[g,h,i]perylene	0.036	J	0.041	0.013	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Benzo[k]fluoranthene	0.060		0.041	0.012	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Chrysene	0.097		0.041	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Fluoranthene	0.14		0.041	0.0077	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.041	0.011	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B01 (0-1)

Lab Sample ID: 500-106258-20

Date Collected: 01/12/16 14:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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	☼	01/14/16 17:22	01/15/16 21:27	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Phenanthrene	0.045		0.041	0.0058	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
Pyrene	0.15		0.041	0.0082	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/14/16 17:22	01/15/16 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	01/14/16 17:22	01/15/16 21:27	1
2-Fluorophenol	85		25 - 110	01/14/16 17:22	01/15/16 21:27	1
Nitrobenzene-d5	91		25 - 115	01/14/16 17:22	01/15/16 21:27	1
Phenol-d5	76		31 - 110	01/14/16 17:22	01/15/16 21:27	1
Terphenyl-d14	132		36 - 134	01/14/16 17:22	01/15/16 21:27	1
2,4,6-Tribromophenol	68		35 - 137	01/14/16 17:22	01/15/16 21:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1 F2	1.0	0.22	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Arsenic	5.9		0.52	0.24	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Barium	96	F1	0.52	0.095	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Beryllium	0.69		0.21	0.045	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Cadmium	0.13	F1	0.10	0.030	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Chromium	17	B F1	0.52	0.089	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Cobalt	9.9		0.26	0.059	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Copper	20		0.52	0.11	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Iron	16000	B	10	4.0	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Lead	32		0.26	0.13	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Magnesium	7600		5.2	2.1	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Calcium	11000	B	10	3.3	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Manganese	360	B	0.52	0.10	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Nickel	23		0.52	0.14	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Selenium	0.59	F1	0.52	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/16/16 11:11	01/18/16 23:12	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Vanadium	25		0.26	0.076	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Zinc	81		1.0	0.33	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Potassium	1400	B F1 F2	26	4.2	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1
Sodium	680	F1	52	6.9	mg/Kg	☼	01/14/16 09:03	01/14/16 18:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Barium	0.58		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 21:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 21:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 21:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B01 (0-1)

Lab Sample ID: 500-106258-20

Date Collected: 01/12/16 14:30

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 21:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Copper	0.013	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 21:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 21:01	1
Magnesium	140		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 21:01	1
Manganese	0.27		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Potassium	5.7		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 21:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 21:01	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 21:01	1
Zinc	0.070	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		01/17/16 17:00	01/19/16 04:21	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		01/17/16 17:00	01/19/16 22:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 22:08	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		01/18/16 13:30	01/19/16 15:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0066	mg/Kg	☼	01/14/16 15:45	01/15/16 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22	J	0.54	0.18	mg/Kg	☼	01/19/16 12:15	01/19/16 14:56	1
pH	8.23		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B02 (0-1)

Lab Sample ID: 500-106258-21

Date Collected: 01/12/16 14:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00092	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Vinyl acetate	<0.0047 *		0.0047	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1
Xylenes, Total	<0.0095		0.0095	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/13/16 13:05	01/15/16 12:57	1
Dibromofluoromethane	107		75 - 120	01/13/16 13:05	01/15/16 12:57	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	01/13/16 13:05	01/15/16 12:57	1
Toluene-d8 (Surr)	106		75 - 122	01/13/16 13:05	01/15/16 12:57	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	☼	01/15/16 16:34	01/18/16 14:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B02 (0-1)

Lab Sample ID: 500-106258-21

Date Collected: 01/12/16 14:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.027	J	0.039	0.0077	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Benzo[b]fluoranthene	0.046		0.039	0.0086	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Benzo[k]fluoranthene	0.022	J	0.039	0.012	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Chrysene	0.032	J	0.039	0.011	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Fluoranthene	0.055		0.039	0.0074	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B02 (0-1)

Lab Sample ID: 500-106258-21

Date Collected: 01/12/16 14:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 78.4

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	☼	01/15/16 16:34	01/18/16 14:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Phenanthrene	0.021	J	0.039	0.0055	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
Pyrene	0.043		0.039	0.0079	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/15/16 16:34	01/18/16 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	01/15/16 16:34	01/18/16 14:37	1
2-Fluorophenol	67		25 - 110	01/15/16 16:34	01/18/16 14:37	1
Nitrobenzene-d5	60		25 - 115	01/15/16 16:34	01/18/16 14:37	1
Phenol-d5	66		31 - 110	01/15/16 16:34	01/18/16 14:37	1
Terphenyl-d14	108		36 - 134	01/15/16 16:34	01/18/16 14:37	1
2,4,6-Tribromophenol	95		35 - 137	01/15/16 16:34	01/18/16 14:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Arsenic	7.2		0.63	0.29	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Barium	120		0.63	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Beryllium	0.65		0.25	0.055	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Cadmium	0.16		0.13	0.037	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Chromium	17	B	0.63	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Cobalt	11		0.32	0.072	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Copper	16		0.63	0.14	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Iron	17000	B	13	4.9	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Lead	30		0.32	0.16	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Magnesium	3500		6.3	2.6	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Calcium	4600		13	4.1	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Manganese	670		0.63	0.13	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Nickel	20		0.63	0.17	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Selenium	0.73		0.63	0.31	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Silver	<0.32		0.32	0.074	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Vanadium	29		0.32	0.093	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Zinc	70		1.3	0.40	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Potassium	1300		32	5.2	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1
Sodium	530	B	63	8.4	mg/Kg	☼	01/15/16 08:35	01/15/16 16:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Barium	0.49	J	0.50	0.050	mg/L		01/17/16 17:00	01/18/16 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 12:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 12:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B02 (0-1)

Lab Sample ID: 500-106258-21

Date Collected: 01/12/16 14:45

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	98	B	5.0	0.50	mg/L		01/17/16 17:00	01/18/16 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Copper	0.021	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Iron	0.24	J	0.40	0.20	mg/L		01/17/16 17:00	01/18/16 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 12:55	1
Magnesium	42	B	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 12:55	1
Manganese	0.054		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Potassium	2.3	J B	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 12:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 12:55	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 12:55	1
Zinc	0.16	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 22:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 22:20	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		01/18/16 13:30	01/19/16 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0066	mg/Kg	☼	01/14/16 15:45	01/15/16 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	01/19/16 12:15	01/19/16 14:57	1
pH	7.96		0.200	0.200	SU			01/18/16 16:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B03 (0-1)

Lab Sample ID: 500-106258-22

Date Collected: 01/12/16 14:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/13/16 13:05	01/15/16 13:22	1
Dibromofluoromethane	105		75 - 120	01/13/16 13:05	01/15/16 13:22	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/13/16 13:05	01/15/16 13:22	1
Toluene-d8 (Surr)	109		75 - 122	01/13/16 13:05	01/15/16 13:22	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	☼	01/15/16 16:34	01/18/16 15:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Benzo[a]anthracene	0.062		0.040	0.0054	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B03 (0-1)

Lab Sample ID: 500-106258-22

Date Collected: 01/12/16 14:55

Matrix: Solid

Date Received: 01/13/16 10:55

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	0.076		0.040	0.0078	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Benzo[b]fluoranthene	0.13	F1 F2	0.040	0.0087	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Benzo[k]fluoranthene	0.058	F1	0.040	0.012	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Bis(2-chloroethoxy)methane	<0.20	F2	0.20	0.041	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.073	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.076	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4-Chloroaniline	<0.81	F1 F2	0.81	0.19	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Chloronaphthalene	<0.20	F2	0.20	0.044	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Chlorophenol	<0.20	F2	0.20	0.068	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Chrysene	0.081		0.040	0.011	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
1,2-Dichlorobenzene	<0.20	F2	0.20	0.048	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
1,3-Dichlorobenzene	<0.20	F2	0.20	0.045	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
1,4-Dichlorobenzene	<0.20	F2	0.20	0.051	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
3,3'-Dichlorobenzidine	<0.20	F2	0.20	0.056	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4-Dimethylphenol	<0.40	F2	0.40	0.15	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4,6-Dinitro-2-methylphenol	<0.81	F1	0.81	0.32	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Fluoranthene	0.15	F1	0.040	0.0074	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Hexachlorobenzene	<0.081	F1	0.081	0.0093	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Hexachlorobutadiene	<0.20	F2	0.20	0.063	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Hexachloroethane	<0.20	F2	0.20	0.061	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Isophorone	<0.20	F2	0.20	0.045	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Methylnaphthalene	<0.040	F2	0.040	0.0074	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Naphthalene	<0.040	F2	0.040	0.0062	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
3-Nitroaniline	<0.40	F1	0.40	0.12	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Nitrobenzene	<0.040	F2	0.040	0.010	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2-Nitrophenol	<0.40	F2	0.40	0.095	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B03 (0-1)

Lab Sample ID: 500-106258-22

Date Collected: 01/12/16 14:55

Matrix: Solid

Date Received: 01/13/16 10:55

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	<0.81		0.81	0.38	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
N-Nitrosodi-n-propylamine	<0.081	F2	0.081	0.049	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,2'-oxybis[1-chloropropane]	<0.20	F2	0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Pentachlorophenol	<0.81	F1	0.81	0.64	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Phenanthrene	0.053		0.040	0.0056	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
Pyrene	0.12	F1	0.040	0.0080	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
1,2,4-Trichlorobenzene	<0.20	F2	0.20	0.043	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1
2,4,6-Trichlorophenol	<0.40	F2	0.40	0.14	mg/Kg	☼	01/15/16 16:34	01/18/16 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	01/15/16 16:34	01/18/16 15:05	1
2-Fluorophenol	64		25 - 110	01/15/16 16:34	01/18/16 15:05	1
Nitrobenzene-d5	57		25 - 115	01/15/16 16:34	01/18/16 15:05	1
Phenol-d5	66		31 - 110	01/15/16 16:34	01/18/16 15:05	1
Terphenyl-d14	109		36 - 134	01/15/16 16:34	01/18/16 15:05	1
2,4,6-Tribromophenol	89		35 - 137	01/15/16 16:34	01/18/16 15:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Arsenic	7.6		0.57	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Barium	93		0.57	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Beryllium	0.63		0.23	0.049	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Chromium	17	B	0.57	0.098	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Copper	19		0.57	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Iron	17000	B	11	4.4	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Lead	34		0.28	0.14	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Magnesium	7900		5.7	2.3	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Calcium	12000		11	3.7	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Manganese	550		0.57	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Nickel	22		0.57	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Selenium	0.57		0.57	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Vanadium	25		0.28	0.083	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Zinc	75		1.1	0.36	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Potassium	1300		28	4.6	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1
Sodium	290	B	57	7.5	mg/Kg	☼	01/15/16 08:35	01/15/16 16:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Barium	0.63		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 13:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 13:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Client Sample ID: 2645-15-B03 (0-1)

Lab Sample ID: 500-106258-22

Date Collected: 01/12/16 14:55

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260	B	5.0	0.50	mg/L		01/17/16 17:00	01/18/16 13:15	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Copper	0.017	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 13:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 13:15	1
Magnesium	130	B	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 13:15	1
Manganese	0.34		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Potassium	4.2	B	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 13:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 13:15	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:15	1
Zinc	0.17	J B	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 22:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 22:36	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		01/18/16 13:30	01/19/16 09:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0063	mg/Kg	☼	01/14/16 15:45	01/15/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J	0.52	0.17	mg/Kg	☼	01/19/16 12:15	01/19/16 14:57	1
pH	7.72		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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.
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.

General Chemistry

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-6

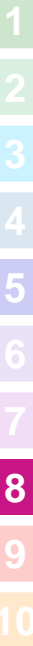
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106258
Chain of Custody Number: _____
Page 5 of 6
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
		<u>115712</u>									
Project Name		Project Location/State		Lab Project #		Lab PM					
		<u>Burlington, IL</u>									
Sampler		Sample ID		Sampling		# of Containers		Matrix			
<u>CTK</u>				Date Time							
Lab ID	MS/MSD										
<u>20</u>		<u>2645-15-B01 (0-1)</u>		<u>1/12/16 2:30</u>		<u>S</u>		<u>VOCS</u>		<u>✓</u>	
<u>21</u>		<u>2645-15-B02 (0-1)</u>		<u>1/12/16 2:45</u>		<u>S</u>		<u>SVOCS</u>		<u>✓</u>	
<u>22</u>		<u>2645-15-B03 (0-1)</u>		<u>1/12/16 2:55</u>		<u>S</u>		<u>23 TAL Inorganics</u>		<u>✓</u>	
								<u>TCLP 23 TAL Inorganics</u>		<u>✓</u>	
								<u>PH</u>		<u>✓</u>	
								<u>SPLP 23 TAL Inorganics</u>		<u>✓</u>	

- 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>1/12/16</u> Time: <u>5:00</u>	Received By <u>Joe Trimmer</u> Company: <u>Terracon</u> Date: <u>1/13/16</u> Time: <u>7:00A.M.</u>	Lab Courier <u>TA</u>
Relinquished By <u>Joe Trimmer</u> Company: <u>Terracon</u> Date: <u>1/13/16</u> Time: <u>9:15A.M.</u>	Received By <u>Joe Trimmer</u> Company: <u>TA</u> Date: <u>1/13/16</u> Time: <u>09:15</u>	Shipped
Relinquished By <u>Joe Trimmer</u> Company: <u>TA</u> Date: <u>1/13/16</u> Time: <u>10:55</u>	Received By <u>Joe Trimmer</u> Company: <u>TA-CRT</u> Date: <u>1/13/16</u> Time: <u>10:55</u>	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: Meet IL TACO Requirements & Please HOLD SPLP Analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-6

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 107+15 to 108+30 (ISGS Site 2645-16)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-16.
See Exhibits 6, 6B and Table 17 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106258-7. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

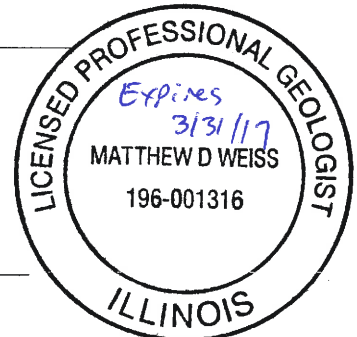
Printed Name:

Matt

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/1/16

Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-16)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-16-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.011
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.069
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.096
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.16
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.067
Chrysene	mg/kg	1.2	2.7	88		0.088
Fluoranthene	mg/kg	2.7	4.1	3100		0.15
Phenanthrene	mg/kg	1.3	2.5	210		0.058
Pyrene	mg/kg	1.9	3.0	2300		0.16
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.1
Barium	mg/kg	---	110	1500		84
Cadmium	mg/kg	---	0.6	5.2		0.33
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		64
Mercury	mg/kg	---	0.06	0.1		0.034
Selenium	mg/kg	---	0.48	1.3		0.38
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.61
Calcium	mg/kg	---	9,300	---		27000
Cobalt	mg/kg	---	8.9	20		12
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.54
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		18000
Manganese	mg/kg	---	636	630		460
Nickel	mg/kg	---	18	100		22
Potassium	mg/kg	---	1,268	---		1300
Sodium	mg/kg	---	130	---		1000
Thallium	mg/kg	---	0.32	2.6		<0.59
Vanadium	mg/kg	---	25.2	550		23
Zinc	mg/kg	---	95	5100		89
pH			6.25	9		8.36
Inorganic Analytical Parameters (SPLP)						
Antimony, SPLP	mg/L	---	---	---		--
Arsenic, SPLP	mg/L	---	---	---		--
Barium, SPLP	mg/L	---	---	---		--
Beryllium, SPLP	mg/L	---	---	---		--
Cadmium, SPLP	mg/L	---	---	---		--
Calcium, SPLP	mg/L	---	---	---		--
Chromium, SPLP	mg/L	---	---	---		--
Cobalt, SPLP	mg/L	---	---	---		--
Copper, SPLP	mg/L	---	---	---		--
Iron, SPLP	mg/L	---	---	---		--
Lead, SPLP	mg/L	---	---	---		--
Magnesium, SPLP	mg/L	---	---	---		--
Manganese, SPLP	mg/L	---	---	---		1.2
Mercury, SPLP	mg/L	---	---	---		--
Nickel, SPLP	mg/L	---	---	---		--
Potassium, SPLP	mg/L	---	---	---		--
Selenium, SPLP	mg/L	---	---	---		--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-16)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-16-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/12/2016
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.59
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		340
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		0.016
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.40
Magnesium,TCLP	mg/L	---	---	---		150
Manganese,TCLP	mg/L	---	---	---		0.3
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		2.4
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.07

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: 500-106258-7

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/22/2016 3:03:20 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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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	5
Client Sample Results	6
Definitions	10
Certification Summary	11
Chain of Custody	12
Receipt Checklists	13

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Job ID: 500-106258-7

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106258-7**

Comments

No additional comments.

Receipt

The samples were received on 1/13/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-319577 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following sample is impacted: 2645-16-B01 (0-1) (500-106258-23).

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-319577 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was 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.

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 method blank for preparation batch 500-319601 and analytical batch 500-319728 contained Chromium and Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Client Sample ID: 2645-16-B01 (0-1)

Lab Sample ID: 500-106258-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.069		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.096		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.067		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.088		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	64		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	89		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106258-23	2645-16-B01 (0-1)	Solid	01/12/16 15:05	01/13/16 10:55

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Client Sample ID: 2645-16-B01 (0-1)

Lab Sample ID: 500-106258-23

Date Collected: 01/12/16 15:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	01/13/16 13:05	01/15/16 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/13/16 13:05	01/15/16 13:47	1
Dibromofluoromethane	102		75 - 120	01/13/16 13:05	01/15/16 13:47	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/13/16 13:05	01/15/16 13:47	1
Toluene-d8 (Surr)	107		75 - 122	01/13/16 13:05	01/15/16 13:47	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	☼	01/15/16 16:34	01/18/16 15:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Anthracene	0.011	J	0.039	0.0065	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Benzo[a]anthracene	0.069		0.039	0.0053	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Client Sample ID: 2645-16-B01 (0-1)

Lab Sample ID: 500-106258-23

Date Collected: 01/12/16 15:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.096		0.039	0.0076	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Benzo[b]fluoranthene	0.16		0.039	0.0085	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Benzo[k]fluoranthene	0.067		0.039	0.012	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Chrysene	0.088		0.039	0.011	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Fluoranthene	0.15		0.039	0.0073	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Client Sample ID: 2645-16-B01 (0-1)

Lab Sample ID: 500-106258-23

Date Collected: 01/12/16 15:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.4

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	☼	01/15/16 16:34	01/18/16 15:32	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Phenanthrene	0.058		0.039	0.0055	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
Pyrene	0.16		0.039	0.0078	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 16:34	01/18/16 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	01/15/16 16:34	01/18/16 15:32	1
2-Fluorophenol	62		25 - 110	01/15/16 16:34	01/18/16 15:32	1
Nitrobenzene-d5	55		25 - 115	01/15/16 16:34	01/18/16 15:32	1
Phenol-d5	64		31 - 110	01/15/16 16:34	01/18/16 15:32	1
Terphenyl-d14	132		36 - 134	01/15/16 16:34	01/18/16 15:32	1
2,4,6-Tribromophenol	91		35 - 137	01/15/16 16:34	01/18/16 15:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Arsenic	7.1		0.59	0.27	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Barium	84		0.59	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Beryllium	0.61		0.24	0.051	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Cadmium	0.33		0.12	0.034	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Chromium	16		0.59	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Cobalt	12		0.29	0.067	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Copper	23		0.59	0.13	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Iron	16000		12	4.5	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Lead	64		0.29	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Magnesium	18000		5.9	2.4	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Calcium	27000		12	3.8	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Manganese	460		0.59	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Nickel	22		0.59	0.16	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Selenium	0.38 J		0.59	0.29	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Vanadium	23		0.29	0.086	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Zinc	89		1.2	0.37	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Potassium	1300		29	4.8	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1
Sodium	1000		59	7.8	mg/Kg	☼	01/15/16 08:35	01/15/16 16:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Barium	0.59		0.50	0.050	mg/L		01/17/16 17:00	01/18/16 13:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/16 17:00	01/18/16 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/16 17:00	01/18/16 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Client Sample ID: 2645-16-B01 (0-1)

Lab Sample ID: 500-106258-23

Date Collected: 01/12/16 15:05

Matrix: Solid

Date Received: 01/13/16 10:55

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/17/16 17:00	01/18/16 13:21	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Copper	0.016	J	0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Iron	<0.40		0.40	0.20	mg/L		01/17/16 17:00	01/18/16 13:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/16 17:00	01/18/16 13:21	1
Magnesium	150		2.5	0.50	mg/L		01/17/16 17:00	01/18/16 13:21	1
Manganese	0.30		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Potassium	2.4	J	2.5	0.50	mg/L		01/17/16 17:00	01/18/16 13:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/16 17:00	01/18/16 13:21	1
Silver	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Vanadium	<0.025		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 13:21	1
Zinc	0.070	J	0.50	0.020	mg/L		01/17/16 17:00	01/18/16 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		01/17/16 17:00	01/18/16 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/17/16 17:00	01/19/16 22:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/17/16 17:00	01/19/16 22:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0062	mg/Kg	☼	01/14/16 15:45	01/15/16 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/19/16 12:15	01/19/16 14:57	1
pH	8.36		0.200	0.200	SU			01/18/16 16:29	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106258-7

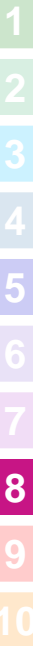
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)	Bill To (optional)
Contact: <u>Matt Weiss</u>	Contact: _____
Company: <u>Terracon</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: <u>Matt.Weiss@terracon.com</u>	PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-106258

Chain of Custody Number: _____

Page 6 of 6

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name		Lab Project #		Project Location/State															Lab Project #
Date		Time		# of Containers		Matrix												Comments	
		<u>11/2/16</u>		<u>3:05</u>		<u>3</u>												<u>HOLD SPLP Analysis</u>	

Turnaround Time Required (Business Days): 10 Days

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>11/2/16</u>	Time: <u>5:00</u>	Received By: <u>Joe Higgins</u>	Company: <u>Terracon</u>	Date: <u>11/3/16</u>	Time: <u>7:00 A.M.</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>Joe Higgins</u>	Company: <u>Terracon</u>	Date: <u>11/3/16</u>	Time: <u>9:15 A.M.</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>11/3/16</u>	Time: <u>0915</u>	Shipped: _____
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>11/3/16</u>	Time: <u>10:55</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHL</u>	Date: <u>11/3/16</u>	Time: <u>10:55</u>	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: Meet IL TAO Requirements & please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106258-7

Login Number: 106258

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.7,3.1,2.4
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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 108+30 to 110+75 (ISGS Site 2645-17)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-17. See Exhibits 7, 7B and Table 19 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-1. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

8/1/16
Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-17)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-17-B01 (0-1)	2645-17-B02 (0-1)	2645-17-B02 (0-1) Dup
				CCDD	Sample Depth (feet)	(0-1)	(0-1)	(0-1)
		mg/kg	MSAs	pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
		Chicago						
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.040	<0.042	0.013
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.042	0.0081
Anthracene	mg/kg	0.25	0.4	12000		0.0074	0.012	0.055
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.061	0.11	0.45
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.072	0.15	0.54
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.11	0.25	0.93
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.034	0.076	0.2
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.051	0.13	0.29
Chrysene	mg/kg	1.2	2.7	88		0.08	0.17	0.55
Fluoranthene	mg/kg	2.7	4.1	3100		0.12	0.27	1
Fluorene	mg/kg	0.1	0.18	560		<0.040	<0.042	0.012
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.036	0.07	0.19
Phenanthrene	mg/kg	1.3	2.5	210		0.035	0.095	0.28
Pyrene	mg/kg	1.9	3.0	2300		0.11	0.24	0.97
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		7.5	7.3	7.9
Barium	mg/kg	---	110	1500		87	93	120
Cadmium	mg/kg	---	0.6	5.2		0.26	0.29	0.3
Chromium, total	mg/kg	---	16.2	21		15	15	18
Lead	mg/kg	---	36	107		36	28	55
Mercury	mg/kg	---	0.06	0.1		0.033	0.033	0.031
Selenium	mg/kg	---	0.48	1.3		0.62	0.57	0.57
Silver	mg/kg	---	0.55	4.4		<0.30	<0.26	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	<1.0	<1.1
Beryllium	mg/kg	---	0.59	22		0.66	0.64	0.7
Calcium	mg/kg	---	9,300	---		31000	30000	11000
Cobalt	mg/kg	---	8.9	20		9.8	11	9.9
Copper	mg/kg	---	19.6	2900		22	22	27
Cyanide	mg/kg	---	0.51	---		<0.55	<0.63	<0.64
Iron	mg/kg	---	15,900	15000		17000	16000	19000
Magnesium	mg/kg	---	4,820	325000		20000	20000	7300
Manganese	mg/kg	---	636	630		560	520	590
Nickel	mg/kg	---	18	100		22	24	21
Potassium	mg/kg	---	1,268	---		1400	1300	1700
Sodium	mg/kg	---	130	---		710	700	940
Thallium	mg/kg	---	0.32	2.6		<0.60	<0.52	<0.57
Vanadium	mg/kg	---	25.2	550		25	20	26
Zinc	mg/kg	---	95	5100		83	83	100
pH			6.25	9		8.88	8.19	8.26
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.45	0.65	0.72

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-17)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-17-B01 (0-1)	2645-17-B02 (0-1)	2645-17-B02 (0-1) Dup
				CCDD	Sample Depth (feet)	(0-1)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg	Date Collected	01/13/2016	01/13/2016	01/13/2016
				pH 6.25-9.0				
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.53	0.57	0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		310	300	210
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.016	0.018	0.035
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		120	130	100
Manganese,TCLP	mg/L	---	---	---		0.49	0.33	0.47
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		6.1	7	7.3
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	---	---	---		0.23	0.07	0.19

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: 500-106314-1

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 3:56:30 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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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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8

9

10



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
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Job ID: 500-106314-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106314-1**

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

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 and/or one base surrogate outside acceptance limits: (500-106314-F-1-B MS) and (500-106314-F-1-C MSD) 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

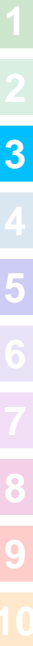
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B01 (0-1)

Lab Sample ID: 500-106314-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0074	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.061		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11	F1	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J F1	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.051		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.080		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.035	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11	F1	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.5		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	31000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	560	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.1	F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-17-B02 (0-1)

Lab Sample ID: 500-106314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.012	J	0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.15		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.042	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.076		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.042	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) (Continued)

Lab Sample ID: 500-106314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.27		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.095		0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.24		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	10	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	520	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	700		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-17-B02 (0-1) Dup

Lab Sample ID: 500-106314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0081	J	0.042	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.055		0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.45		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.54		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.93		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.20		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.29		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.55		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.0		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.28		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.97		0.042	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) Dup (Continued)

Lab Sample ID: 500-106314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	27	B	0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	55		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7300	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	940		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.47		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.26		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-1	2645-17-B01 (0-1)	Solid	01/13/16 09:05	01/14/16 11:00
500-106314-2	2645-17-B02 (0-1)	Solid	01/13/16 09:20	01/14/16 11:00
500-106314-3	2645-17-B02 (0-1) Dup	Solid	01/13/16 09:25	01/14/16 11:00

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B01 (0-1)

Lab Sample ID: 500-106314-1

Date Collected: 01/13/16 09:05

Matrix: Solid

Date Received: 01/14/16 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	<0.018		0.018	0.0035	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	01/14/16 14:15	01/18/16 16:07	1
Dibromofluoromethane	107		75 - 120	01/14/16 14:15	01/18/16 16:07	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/14/16 14:15	01/18/16 16:07	1
Toluene-d8 (Surr)	112		75 - 122	01/14/16 14:15	01/18/16 16:07	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	☼	01/15/16 07:06	01/20/16 17:40	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Anthracene	0.0074	J	0.040	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Benzo[a]anthracene	0.061		0.040	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B01 (0-1)

Lab Sample ID: 500-106314-1

Date Collected: 01/13/16 09:05

Matrix: Solid

Date Received: 01/14/16 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	0.072		0.040	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Benzo[b]fluoranthene	0.11	F1	0.040	0.0086	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Benzo[g,h,i]perylene	0.034	J F1	0.040	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Benzo[k]fluoranthene	0.051		0.040	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Chrysene	0.080		0.040	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Fluoranthene	0.12		0.040	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Indeno[1,2,3-cd]pyrene	0.036	J	0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Methylnaphthalene	<0.040	F1	0.040	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
3-Nitroaniline	<0.40	F1	0.40	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B01 (0-1)

Lab Sample ID: 500-106314-1

Date Collected: 01/13/16 09:05

Matrix: Solid

Date Received: 01/14/16 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	<0.81		0.81	0.38	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Pentachlorophenol	<0.81	F1	0.81	0.64	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Phenanthrene	0.035	J	0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
Pyrene	0.11	F1	0.040	0.0080	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	01/15/16 07:06	01/20/16 17:40	1
2-Fluorophenol	80		25 - 110	01/15/16 07:06	01/20/16 17:40	1
Nitrobenzene-d5	91		25 - 115	01/15/16 07:06	01/20/16 17:40	1
Phenol-d5	52		31 - 110	01/15/16 07:06	01/20/16 17:40	1
Terphenyl-d14	112		36 - 134	01/15/16 07:06	01/20/16 17:40	1
2,4,6-Tribromophenol	52		35 - 137	01/15/16 07:06	01/20/16 17:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Arsenic	7.5		0.60	0.28	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Barium	87		0.60	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Beryllium	0.66		0.24	0.052	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Cadmium	0.26		0.12	0.035	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Chromium	15	B	0.60	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Cobalt	9.8		0.30	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Copper	22	B	0.60	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Iron	17000	B	12	4.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Lead	36		0.30	0.15	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Magnesium	20000	B	6.0	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Calcium	31000	B	12	3.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Manganese	560	B	0.60	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Nickel	22		0.60	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Selenium	0.62		0.60	0.30	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Vanadium	25		0.30	0.088	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Zinc	83		1.2	0.38	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Potassium	1400		30	4.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1
Sodium	710		60	7.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Barium	0.53		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 18:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B01 (0-1)

Lab Sample ID: 500-106314-1

Date Collected: 01/13/16 09:05

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 18:34	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Copper	0.016	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 18:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 18:34	1
Magnesium	120		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 18:34	1
Manganese	0.49		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Potassium	6.1	F1	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 18:34	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 18:34	1
Zinc	0.23	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/18/16 15:00	01/20/16 18:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 18:26	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		01/18/16 13:30	01/19/16 12:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0098	mg/Kg	☼	01/15/16 15:15	01/18/16 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/19/16 12:15	01/19/16 15:00	1
pH	8.88		0.200	0.200	SU			01/19/16 15:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1)

Lab Sample ID: 500-106314-2

Date Collected: 01/13/16 09:20

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/14/16 14:15	01/18/16 16:32	1
Dibromofluoromethane	103		75 - 120	01/14/16 14:15	01/18/16 16:32	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/14/16 14:15	01/18/16 16:32	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/18/16 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Anthracene	0.012	J	0.042	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Benzo[a]anthracene	0.11		0.042	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1)

Lab Sample ID: 500-106314-2

Date Collected: 01/13/16 09:20

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.15		0.042	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Benzo[b]fluoranthene	0.25		0.042	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Benzo[g,h,i]perylene	0.076		0.042	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Benzo[k]fluoranthene	0.13		0.042	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Chrysene	0.17		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Fluoranthene	0.27		0.042	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Indeno[1,2,3-cd]pyrene	0.070		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1)

Lab Sample ID: 500-106314-2

Date Collected: 01/13/16 09:20

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Phenanthrene	0.095		0.042	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
Pyrene	0.24		0.042	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	01/15/16 07:06	01/20/16 18:03	1
2-Fluorophenol	89		25 - 110	01/15/16 07:06	01/20/16 18:03	1
Nitrobenzene-d5	97		25 - 115	01/15/16 07:06	01/20/16 18:03	1
Phenol-d5	67		31 - 110	01/15/16 07:06	01/20/16 18:03	1
Terphenyl-d14	125		36 - 134	01/15/16 07:06	01/20/16 18:03	1
2,4,6-Tribromophenol	43		35 - 137	01/15/16 07:06	01/20/16 18:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Arsenic	7.3		0.52	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Barium	93		0.52	0.096	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Beryllium	0.64		0.21	0.045	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Cadmium	0.29		0.10	0.030	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Chromium	15 B		0.52	0.090	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Cobalt	11		0.26	0.059	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Copper	22 B		0.52	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Iron	16000 B		10	4.0	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Lead	28		0.26	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Magnesium	20000 B		5.2	2.1	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Calcium	30000 B		10	3.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Manganese	520 B		0.52	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Nickel	24		0.52	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Selenium	0.57		0.52	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Vanadium	20		0.26	0.076	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Zinc	83		1.0	0.33	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Potassium	1300		26	4.3	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1
Sodium	700		52	6.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Barium	0.57		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1)

Lab Sample ID: 500-106314-2

Date Collected: 01/13/16 09:20

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Copper	0.018	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:01	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:01	1
Manganese	0.33		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Potassium	7.0		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:01	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:01	1
Zinc	0.070	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.65		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 15:31	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		01/18/16 15:00	01/20/16 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 18:39	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		01/18/16 13:30	01/19/16 12:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	01/19/16 12:15	01/19/16 15:01	1
pH	8.19		0.200	0.200	SU			01/19/16 15:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) Dup

Lab Sample ID: 500-106314-3

Date Collected: 01/13/16 09:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/18/16 16:57	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/18/16 16:57	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/14/16 14:15	01/18/16 16:57	1
Toluene-d8 (Surr)	109		75 - 122	01/14/16 14:15	01/18/16 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013	J	0.042	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Acenaphthylene	0.0081	J	0.042	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Anthracene	0.055		0.042	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Benzo[a]anthracene	0.45		0.042	0.0057	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) Dup

Lab Sample ID: 500-106314-3

Date Collected: 01/13/16 09:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.54		0.042	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Benzo[b]fluoranthene	0.93		0.042	0.0091	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Benzo[g,h,i]perylene	0.20		0.042	0.014	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Benzo[k]fluoranthene	0.29		0.042	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Chrysene	0.55		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Fluoranthene	1.0		0.042	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Fluorene	0.012 J		0.042	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Indeno[1,2,3-cd]pyrene	0.19		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) Dup

Lab Sample ID: 500-106314-3

Date Collected: 01/13/16 09:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Phenanthrene	0.28		0.042	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
Pyrene	0.97		0.042	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	01/15/16 07:06	01/20/16 18:26	1
2-Fluorophenol	87		25 - 110	01/15/16 07:06	01/20/16 18:26	1
Nitrobenzene-d5	95		25 - 115	01/15/16 07:06	01/20/16 18:26	1
Phenol-d5	62		31 - 110	01/15/16 07:06	01/20/16 18:26	1
Terphenyl-d14	128		36 - 134	01/15/16 07:06	01/20/16 18:26	1
2,4,6-Tribromophenol	59		35 - 137	01/15/16 07:06	01/20/16 18:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Arsenic	7.9		0.57	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Barium	120		0.57	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Beryllium	0.70		0.23	0.050	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Cadmium	0.30		0.11	0.033	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Chromium	18 B		0.57	0.099	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Cobalt	9.9		0.29	0.065	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Copper	27 B		0.57	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Iron	19000 B		11	4.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Lead	55		0.29	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Magnesium	7300 B		5.7	2.3	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Calcium	11000 B		11	3.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Manganese	590 B		0.57	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Nickel	21		0.57	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Selenium	0.57		0.57	0.28	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Vanadium	26		0.29	0.084	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Zinc	100		1.1	0.36	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Potassium	1700		29	4.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1
Sodium	940		57	7.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Barium	0.47 J		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Client Sample ID: 2645-17-B02 (0-1) Dup

Lab Sample ID: 500-106314-3

Date Collected: 01/13/16 09:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Copper	0.035		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:08	1
Magnesium	100		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:08	1
Manganese	0.47		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Potassium	7.3		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:08	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:08	1
Zinc	0.19	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/18/16 15:00	01/20/16 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 18:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.21	mg/Kg	☼	01/19/16 12:15	01/19/16 15:01	1
pH	8.26		0.200	0.200	SU			01/19/16 15:13	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Qualifiers

GC/MS Semi VOA

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.
X	Surrogate is outside 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.
F1	MS and/or MSD Recovery 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.
▫	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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-106314 COC

Report To (optional)

Contact: Matt Weiss
Company: Terracon
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: Matt.Weiss@terracon.com

Bill To (optional)

Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____

Chain of Custody Record

Lab Job #: 500-106314
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 2, 5, 3, 0, 2, 8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
		<u>11157112</u>										
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
<u>Barthlett, IL</u>												
Sampler		Lab PM		Date		Time		# of Containers		Matrix		
<u>CTK</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCS	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics
<u>1</u>		<u>2645-17-B01 (0-1)</u>	<u>1/13/16</u>	<u>9:05</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>2</u>		<u>2645-17-B02 (0-1)</u>	<u>1/13/16</u>	<u>9:20</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>3</u>		<u>2645-17-B02 Dup (0-1)</u>	<u>1/13/16</u>	<u>9:25</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

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>Amel Kelly</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>	Received By <u>Matt</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>
Relinquished By <u>Matt</u>	Company <u>Terracon</u>	Date <u>1/14/16</u>	Time <u>9:10</u>	Received By <u>Daniel Besken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>9:10</u>
Relinquished By <u>Daniel Besken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>11:00</u>	Received By <u>Sherrill Scott</u>	Company <u>TA-COIT</u>	Date <u>1/14/16</u>	Time <u>11:00</u>

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

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

Client Comments: Meet IL TALW Requirements & Please HOLD SPLP Analysis, thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-1

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Near IL 59 and Stearns Road intersection from IDOT STA 110+75 to 113+00 and 55+15 to 57+84 (ISGS Site 2645-18)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, B04 and B05 were sampled adjacent to ISGS Site No 2645-18. See Exhibits 5, 7, 5A, 7B and Table 21 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-2. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

8/1/16
 Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-18)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-18-B01 (0-5)	2645-18-B02 (0-5)	2645-18-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters								
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.036	<0.041
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.036	<0.041
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.0089	<0.036	<0.041
Chrysene	mg/kg	1.2	2.7	88		<0.038	<0.036	<0.041
Fluoranthene	mg/kg	2.7	4.1	3100		0.0096	<0.036	<0.041
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	<0.036	<0.041
Pyrene	mg/kg	1.9	3.0	2300		0.0078	<0.036	<0.041
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		7.6	9	8
Barium	mg/kg	---	110	1500		81	45	130
Cadmium	mg/kg	---	0.6	5.2		0.16	0.21	<0.099
Chromium, total	mg/kg	---	16.2	21		17	14	22
Lead	mg/kg	---	36	107		27	14	18
Mercury	mg/kg	---	0.06	0.1		0.022	0.022	0.044
Selenium	mg/kg	---	0.48	1.3		0.34	0.3	0.28
Silver	mg/kg	---	0.55	4.4		<0.30	<0.29	<0.25
Antimony	mg/kg	---	4.0	5		<1.2	0.24	<0.99
Beryllium	mg/kg	---	0.59	22		0.74	0.6	0.8
Calcium	mg/kg	---	9,300	---		18000	88000	2500
Cobalt	mg/kg	---	8.9	20		12	12	16
Copper	mg/kg	---	19.6	2900		19	23	18
Cyanide	mg/kg	---	0.51	---		<0.55	<0.57	<0.60
Iron	mg/kg	---	15,900	15000		19000	18000	21000
Magnesium	mg/kg	---	4,820	325000		11000	37000	3800
Manganese	mg/kg	---	636	630		560	420	720
Nickel	mg/kg	---	18	100		24	29	31
Potassium	mg/kg	---	1,268	---		1600	1700	890
Sodium	mg/kg	---	130	---		1100	170	570
Thallium	mg/kg	---	0.32	2.6		<0.60	<0.58	<0.50
Vanadium	mg/kg	---	25.2	550		25	18	40
Zinc	mg/kg	---	95	5100		68	62	61
pH			6.25	9		8.79	8.49	8.02
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.44	<0.025	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-18)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-18-B01 (0-5)	2645-18-B02 (0-5)	2645-18-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)
		mg/kg	Date Collected	01/13/2016	01/13/2016	01/13/2016		
		pH 6.25-9.0						
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.49	0.35	0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		380	430	59
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		0.24	<0.40	0.89
Magnesium,TCLP	mg/L	---	---	---		130	130	23
Manganese,TCLP	mg/L	---	---	---		0.65	0.56	0.06
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.8	1.2	1.5
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	---	---	---		<0.50	0.095	<0.50

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-18)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-18-B04 (0-5)	2645-18-B05 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	0.014
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	0.015
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	0.024
Chrysene	mg/kg	1.2	2.7	88		<0.038	0.021
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	0.034
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	0.014
Pyrene	mg/kg	1.9	3.0	2300		<0.038	0.029
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.8	7.8
Barium	mg/kg	---	110	1500		74	180
Cadmium	mg/kg	---	0.6	5.2		0.16	0.34
Chromium, total	mg/kg	---	16.2	21		17	17
Lead	mg/kg	---	36	107		13	23
Mercury	mg/kg	---	0.06	0.1		0.017	0.039
Selenium	mg/kg	---	0.48	1.3		<0.58	0.59
Silver	mg/kg	---	0.55	4.4		<0.29	<0.32
Antimony	mg/kg	---	4.0	5		<1.2	<1.3
Beryllium	mg/kg	---	0.59	22		0.68	0.76
Calcium	mg/kg	---	9,300	---		67000	4100
Cobalt	mg/kg	---	8.9	20		13	14
Copper	mg/kg	---	19.6	2900		20	17
Cyanide	mg/kg	---	0.51	---		<0.58	0.26
Iron	mg/kg	---	15,900	15000		18000	18000
Magnesium	mg/kg	---	4,820	325000		26000	2900
Manganese	mg/kg	---	636	630		410	1100
Nickel	mg/kg	---	18	100		32	25
Potassium	mg/kg	---	1,268	---		2100	1200
Sodium	mg/kg	---	130	---		280	180
Thallium	mg/kg	---	0.32	2.6		0.42	<0.64
Vanadium	mg/kg	---	25.2	550		21	30
Zinc	mg/kg	---	95	5100		63	73
pH			6.25	9		8.61	7.71
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.07	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-18)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-18-B04 (0-5)	2645-18-B05 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.6	0.32
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		490	65
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	0.015
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		84	24
Manganese,TCLP	mg/L	---	---	---		0.42	<0.025
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.3	2.1
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	0.21

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: 500-106314-2

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:04:29 PM

Jodie Bracken, Project Management Assistant II

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Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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

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

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

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3

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5

6

7

8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	8
Client Sample Results	9
Definitions	29
Certification Summary	30
Chain of Custody	31
Receipt Checklists	32

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Job ID: 500-106314-2

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106314-2**

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

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 and/or one base surrogate outside acceptance limits: (500-106314-F-1-B MS) and (500-106314-F-1-C MSD). 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

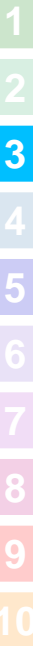
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B01 (0-5)

Lab Sample ID: 500-106314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzof[b]fluoranthene	0.0089	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0096	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0078	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	560	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-18-B02 (0-5)

Lab Sample ID: 500-106314-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.24	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	420	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B02 (0-5) (Continued)

Lab Sample ID: 500-106314-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	62		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.095	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.022		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-18-B03 (0-5)

Lab Sample ID: 500-106314-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Chromium	22	B	0.50	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2500	B	9.9	3.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	720	B	0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	40		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	890		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		50	6.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	59		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.89		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.044		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-18-B04 (0-5)

Lab Sample ID: 500-106314-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B04 (0-5) (Continued)

Lab Sample ID: 500-106314-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20	B	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	410	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-18-B05 (0-5)

Lab Sample ID: 500-106314-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.024	J	0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.034	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.029	J	0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.8		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	180		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.26	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.32	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900	B	6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100	B	0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.32	0.094	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		32	5.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		64	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B05 (0-5) (Continued)

Lab Sample ID: 500-106314-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	65		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.039		0.021	0.011	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.26	J	0.58	0.19	mg/Kg	1	✳	9014	Total/NA
pH	7.71		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-4	2645-18-B01 (0-5)	Solid	01/13/16 09:35	01/14/16 11:00
500-106314-5	2645-18-B02 (0-5)	Solid	01/13/16 09:50	01/14/16 11:00
500-106314-6	2645-18-B03 (0-5)	Solid	01/13/16 12:05	01/14/16 11:00
500-106314-7	2645-18-B04 (0-5)	Solid	01/13/16 12:15	01/14/16 11:00
500-106314-8	2645-18-B05 (0-5)	Solid	01/13/16 12:30	01/14/16 11:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B01 (0-5)

Lab Sample ID: 500-106314-4

Date Collected: 01/13/16 09:35

Matrix: Solid

Date Received: 01/14/16 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		0.016	0.0030	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/14/16 14:15	01/18/16 17:22	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/18/16 17:22	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/14/16 14:15	01/18/16 17:22	1
Toluene-d8 (Surr)	111		75 - 122	01/14/16 14:15	01/18/16 17:22	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	☼	01/15/16 07:06	01/20/16 11:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B01 (0-5)

Lab Sample ID: 500-106314-4

Date Collected: 01/13/16 09:35

Matrix: Solid

Date Received: 01/14/16 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	<0.038		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Benzo[b]fluoranthene	0.0089	J	0.038	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Fluoranthene	0.0096	J	0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B01 (0-5)

Lab Sample ID: 500-106314-4

Date Collected: 01/13/16 09:35

Matrix: Solid

Date Received: 01/14/16 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	<0.77		0.77	0.37	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
Pyrene	0.0078	J	0.038	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		25 - 119	01/15/16 07:06	01/20/16 11:03	1
2-Fluorophenol	99		25 - 110	01/15/16 07:06	01/20/16 11:03	1
Nitrobenzene-d5	108		25 - 115	01/15/16 07:06	01/20/16 11:03	1
Phenol-d5	80		31 - 110	01/15/16 07:06	01/20/16 11:03	1
Terphenyl-d14	121		36 - 134	01/15/16 07:06	01/20/16 11:03	1
2,4,6-Tribromophenol	66		35 - 137	01/15/16 07:06	01/20/16 11:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Arsenic	7.6		0.60	0.28	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Barium	81		0.60	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Beryllium	0.74		0.24	0.052	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Cadmium	0.16		0.12	0.035	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Chromium	17	B	0.60	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Cobalt	12		0.30	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Copper	19	B	0.60	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Iron	19000	B	12	4.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Lead	27		0.30	0.15	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Magnesium	11000	B	6.0	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Calcium	18000	B	12	3.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Manganese	560	B	0.60	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Nickel	24		0.60	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Selenium	0.34	J	0.60	0.30	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Vanadium	25		0.30	0.087	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Zinc	68		1.2	0.38	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Potassium	1600		30	4.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1
Sodium	1100		60	7.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Barium	0.49	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B01 (0-5)

Lab Sample ID: 500-106314-4

Date Collected: 01/13/16 09:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:15	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Iron	0.24 J		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:15	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:15	1
Manganese	0.65		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Potassium	1.8 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:15	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:15	1
Zinc	<0.50		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 15:44	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		01/18/16 15:00	01/20/16 18:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 18:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/19/16 12:15	01/19/16 15:01	1
pH	8.79		0.200	0.200	SU			01/19/16 15:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B02 (0-5)

Lab Sample ID: 500-106314-5

Date Collected: 01/13/16 09:50

Matrix: Solid

Date Received: 01/14/16 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	<0.022		0.022	0.0042	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Benzene	<0.0055		0.0055	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Bromodichloromethane	<0.0055		0.0055	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Bromoform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Bromomethane	<0.0055		0.0055	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Carbon disulfide	<0.0055		0.0055	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Chlorobenzene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Chloroethane	<0.0055		0.0055	0.0023	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Chloroform	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Chloromethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Dibromochloromethane	<0.0055		0.0055	0.00063	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,1-Dichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,1-Dichloroethene	<0.0055		0.0055	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,2-Dichloropropane	<0.0055		0.0055	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Ethylbenzene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Methylene Chloride	<0.0055		0.0055	0.0041	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Methyl tert-butyl ether	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Styrene	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Tetrachloroethene	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Toluene	<0.0055		0.0055	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Trichloroethene	<0.0055		0.0055	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Vinyl acetate	<0.0055		0.0055	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Vinyl chloride	<0.0055		0.0055	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	01/14/16 14:15	01/18/16 17:46	1
Dibromofluoromethane	111		75 - 120	01/14/16 14:15	01/18/16 17:46	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	01/14/16 14:15	01/18/16 17:46	1
Toluene-d8 (Surr)	106		75 - 122	01/14/16 14:15	01/18/16 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B02 (0-5)

Lab Sample ID: 500-106314-5

Date Collected: 01/13/16 09:50

Matrix: Solid

Date Received: 01/14/16 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	<0.036		0.036	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B02 (0-5)

Lab Sample ID: 500-106314-5

Date Collected: 01/13/16 09:50

Matrix: Solid

Date Received: 01/14/16 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	<0.73		0.73	0.35	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		25 - 119	01/15/16 07:06	01/20/16 11:27	1
2-Fluorophenol	94		25 - 110	01/15/16 07:06	01/20/16 11:27	1
Nitrobenzene-d5	106		25 - 115	01/15/16 07:06	01/20/16 11:27	1
Phenol-d5	75		31 - 110	01/15/16 07:06	01/20/16 11:27	1
Terphenyl-d14	118		36 - 134	01/15/16 07:06	01/20/16 11:27	1
2,4,6-Tribromophenol	85		35 - 137	01/15/16 07:06	01/20/16 11:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.2	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Arsenic	9.0		0.58	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Barium	45		0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Beryllium	0.60		0.23	0.050	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Cadmium	0.21		0.12	0.033	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Chromium	14	B	0.58	0.099	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Cobalt	12		0.29	0.065	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Copper	23	B	0.58	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Iron	18000	B	12	4.5	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Lead	14		0.29	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Magnesium	37000	B	5.8	2.3	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Calcium	88000	B	120	37	mg/Kg	☼	01/15/16 08:54	01/15/16 22:47	10
Manganese	420	B	0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Nickel	29		0.58	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Selenium	0.30	J	0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Vanadium	18		0.29	0.084	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Zinc	62		1.2	0.37	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Potassium	1700		29	4.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1
Sodium	170		58	7.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Barium	0.35	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B02 (0-5)

Lab Sample ID: 500-106314-5

Date Collected: 01/13/16 09:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:21	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:21	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:21	1
Manganese	0.56		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Potassium	1.2 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:21	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:21	1
Zinc	0.095 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 15:51	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		01/18/16 15:00	01/20/16 18:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 18:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0094	mg/Kg	☼	01/15/16 15:15	01/18/16 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/19/16 12:15	01/19/16 15:02	1
pH	8.49		0.200	0.200	SU			01/19/16 15:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B03 (0-5)

Lab Sample ID: 500-106314-6

Date Collected: 01/13/16 12:05

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Carbon disulfide	<0.0053		0.0053	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Chlorobenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Toluene	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/14/16 14:15	01/18/16 18:11	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/18/16 18:11	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/14/16 14:15	01/18/16 18:11	1
Toluene-d8 (Surr)	107		75 - 122	01/14/16 14:15	01/18/16 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B03 (0-5)

Lab Sample ID: 500-106314-6

Date Collected: 01/13/16 12:05

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.6

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	☼	01/15/16 07:06	01/20/16 11:51	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B03 (0-5)

Lab Sample ID: 500-106314-6

Date Collected: 01/13/16 12:05

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119	01/15/16 07:06	01/20/16 11:51	1
2-Fluorophenol	93		25 - 110	01/15/16 07:06	01/20/16 11:51	1
Nitrobenzene-d5	103		25 - 115	01/15/16 07:06	01/20/16 11:51	1
Phenol-d5	73		31 - 110	01/15/16 07:06	01/20/16 11:51	1
Terphenyl-d14	122		36 - 134	01/15/16 07:06	01/20/16 11:51	1
2,4,6-Tribromophenol	79		35 - 137	01/15/16 07:06	01/20/16 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Arsenic	8.0		0.50	0.23	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Barium	130		0.50	0.091	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Beryllium	0.80		0.20	0.043	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Chromium	22 B		0.50	0.085	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Cobalt	16		0.25	0.056	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Copper	18 B		0.50	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Iron	21000 B		9.9	3.8	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Lead	18		0.25	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Magnesium	3800 B		5.0	2.0	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Calcium	2500 B		9.9	3.2	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Manganese	720 B		0.50	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Nickel	31		0.50	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Selenium	0.28 J		0.50	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Vanadium	40		0.25	0.072	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Zinc	61		0.99	0.31	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Potassium	890		25	4.0	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1
Sodium	570		50	6.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Barium	0.37 J		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B03 (0-5)

Lab Sample ID: 500-106314-6

Date Collected: 01/13/16 12:05

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	59		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Iron	0.89		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:28	1
Magnesium	23		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:28	1
Manganese	0.060		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Potassium	1.5 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:28	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:28	1
Zinc	<0.50		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:28	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		01/18/16 15:00	01/20/16 19:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:00	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		01/18/16 13:30	01/19/16 12:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0099	mg/Kg	☼	01/15/16 15:15	01/18/16 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	01/19/16 12:15	01/19/16 15:03	1
pH	8.02		0.200	0.200	SU			01/19/16 15:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B04 (0-5)

Lab Sample ID: 500-106314-7

Date Collected: 01/13/16 12:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/18/16 18:36	1
Dibromofluoromethane	109		75 - 120	01/14/16 14:15	01/18/16 18:36	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/14/16 14:15	01/18/16 18:36	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/18/16 18:36	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	☼	01/15/16 07:06	01/20/16 12:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B04 (0-5)

Lab Sample ID: 500-106314-7

Date Collected: 01/13/16 12:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B04 (0-5)

Lab Sample ID: 500-106314-7

Date Collected: 01/13/16 12:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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	☼	01/15/16 07:06	01/20/16 12:14	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	01/15/16 07:06	01/20/16 12:14	1
2-Fluorophenol	97		25 - 110	01/15/16 07:06	01/20/16 12:14	1
Nitrobenzene-d5	107		25 - 115	01/15/16 07:06	01/20/16 12:14	1
Phenol-d5	64		31 - 110	01/15/16 07:06	01/20/16 12:14	1
Terphenyl-d14	121		36 - 134	01/15/16 07:06	01/20/16 12:14	1
2,4,6-Tribromophenol	84		35 - 137	01/15/16 07:06	01/20/16 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Arsenic	7.8		0.58	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Barium	74		0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Beryllium	0.68		0.23	0.050	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Chromium	17 B		0.58	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Copper	20 B		0.58	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Iron	18000 B		12	4.5	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Lead	13		0.29	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Magnesium	26000 B		5.8	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Calcium	67000 B		120	37	mg/Kg	☼	01/15/16 08:54	01/15/16 22:55	10
Manganese	410 B		0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Nickel	32		0.58	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Thallium	0.42 J		0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Vanadium	21		0.29	0.085	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Zinc	63		1.2	0.37	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Potassium	2100		29	4.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1
Sodium	280		58	7.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Barium	0.60		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B04 (0-5)

Lab Sample ID: 500-106314-7

Date Collected: 01/13/16 12:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	490		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:35	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:35	1
Magnesium	84		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:35	1
Manganese	0.42		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Potassium	1.3 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:35	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:35	1
Zinc	<0.50		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.070		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 16:34	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		01/18/16 15:00	01/20/16 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:03	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		01/18/16 13:30	01/19/16 12:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017 J		0.019	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/19/16 12:15	01/19/16 15:03	1
pH	8.61		0.200	0.200	SU			01/19/16 15:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B05 (0-5)

Lab Sample ID: 500-106314-8

Date Collected: 01/13/16 12:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Benzene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Bromodichloromethane	<0.0053		0.0053	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Bromoform	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Bromomethane	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Carbon disulfide	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Carbon tetrachloride	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Chlorobenzene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Chloroethane	<0.0053		0.0053	0.0022	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Chloroform	<0.0053		0.0053	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Chloromethane	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Dibromochloromethane	<0.0053		0.0053	0.00061	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,1-Dichloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,1-Dichloroethene	<0.0053		0.0053	0.0019	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,2-Dichloropropane	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Ethylbenzene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Methylene Chloride	<0.0053		0.0053	0.0040	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Methyl tert-butyl ether	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Styrene	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Tetrachloroethene	<0.0053		0.0053	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Toluene	<0.0053		0.0053	0.0018	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Trichloroethene	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Vinyl acetate	<0.0053		0.0053	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Vinyl chloride	<0.0053		0.0053	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	01/14/16 14:15	01/18/16 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	01/14/16 14:15	01/18/16 19:01	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/18/16 19:01	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/14/16 14:15	01/18/16 19:01	1
Toluene-d8 (Surr)	109		75 - 122	01/14/16 14:15	01/18/16 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Benzo[a]anthracene	0.014	J	0.041	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B05 (0-5)

Lab Sample ID: 500-106314-8

Date Collected: 01/13/16 12:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.3

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	0.041	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Benzo[b]fluoranthene	0.024	J	0.041	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Chrysene	0.021	J	0.041	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Fluoranthene	0.034	J	0.041	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B05 (0-5)

Lab Sample ID: 500-106314-8

Date Collected: 01/13/16 12:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Phenanthrene	0.014	J	0.041	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
Pyrene	0.029	J	0.041	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	01/15/16 07:06	01/20/16 12:38	1
2-Fluorophenol	87		25 - 110	01/15/16 07:06	01/20/16 12:38	1
Nitrobenzene-d5	94		25 - 115	01/15/16 07:06	01/20/16 12:38	1
Phenol-d5	68		31 - 110	01/15/16 07:06	01/20/16 12:38	1
Terphenyl-d14	111		36 - 134	01/15/16 07:06	01/20/16 12:38	1
2,4,6-Tribromophenol	65		35 - 137	01/15/16 07:06	01/20/16 12:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Arsenic	7.8		0.64	0.30	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Barium	180		0.64	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Beryllium	0.76		0.26	0.056	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Cadmium	0.34		0.13	0.037	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Chromium	17	B	0.64	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Cobalt	14		0.32	0.073	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Copper	17	B	0.64	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Iron	18000	B	13	4.9	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Lead	23		0.32	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Magnesium	2900	B	6.4	2.6	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Calcium	4100	B	13	4.1	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Manganese	1100	B	0.64	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Nickel	25		0.64	0.17	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Selenium	0.59	J	0.64	0.32	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Vanadium	30		0.32	0.094	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Zinc	73		1.3	0.41	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Potassium	1200		32	5.2	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1
Sodium	180		64	8.5	mg/Kg	☼	01/15/16 08:54	01/15/16 20:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Barium	0.32	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

Client Sample ID: 2645-18-B05 (0-5)

Lab Sample ID: 500-106314-8

Date Collected: 01/13/16 12:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	65		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 19:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Copper	0.015	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 19:57	1
Magnesium	24		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:57	1
Manganese	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Potassium	2.1	J	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 19:57	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 19:57	1
Zinc	0.21	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 19:57	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		01/18/16 15:00	01/20/16 19:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:07	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		01/18/16 13:30	01/19/16 12:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.26	J	0.58	0.19	mg/Kg	☼	01/19/16 12:15	01/19/16 15:03	1
pH	7.71		0.200	0.200	SU			01/19/16 15:20	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

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
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.

General Chemistry

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-2

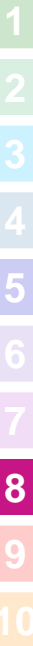
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Report To: (optional)
 Contact: Math weiss
 Company: Terracon
 Address: _____
 Address: _____
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 Fax: _____
 E-Mail: math.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106314
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		# of Containers	Matrix	Parameter					Comments			
Project Name		Project Location/State		Lab Project #				Sampler								
Lab ID	MS/MSD	Sample ID	Date	Time												
		<u>115712</u>						<u>VOCS</u>	<u>SUOCS</u>	<u>23 TAL</u>	<u>Inorganics</u>	<u>TCLP 23 TAL</u>	<u>Inorganics</u>	<u>pH</u>	<u>SPLP 23 TAL</u>	<u>Inorganics</u>
<u>4</u>		<u>2645-18-B01 (O-S)</u>	<u>11/3/16</u>	<u>9:35</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>HOLD SPLP analysis.</u>
<u>5</u>		<u>2645-18-B02 (O-S)</u>	<u>11/3/16</u>	<u>9:50</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>6</u>		<u>2645-18-B03 (O-S)</u>	<u>11/3/16</u>	<u>12:05</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>7</u>		<u>2645-18-B04 (O-S)</u>	<u>11/3/16</u>	<u>12:15</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>8</u>		<u>2645-18-B05 (O-S)</u>	<u>11/3/16</u>	<u>12:30</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

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

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 6 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>Chad Kelly</u>	Company: <u>Terracon</u>	Date: <u>11/3/16</u>	Time: <u>5:30</u>	Received By: <u>Math</u>	Company: <u>Terracon</u>	Date: <u>11/13/16</u>	Time: <u>5:30</u>
Relinquished By: <u>Math</u>	Company: <u>Terracon</u>	Date: <u>11/14/16</u>	Time: <u>9:10</u>	Received By: <u>Daniel Becker</u>	Company: <u>TA</u>	Date: <u>1/14/16</u>	Time: <u>9:10</u>
Relinquished By: <u>Daniel Becker</u>	Company: <u>TA</u>	Date: <u>1/14/16</u>	Time: <u>11:00</u>	Received By: <u>Shirley</u>	Company: <u>TA-CRT</u>	Date: <u>1/14/16</u>	Time: <u>17:00</u>

Lab Courier: JA
 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: met IL TACO Requirements & Please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-2

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Near IL 59 and Stearns Road from IDOT STA 113+00 to 115+00, 50+00 to 51+30 and 51+90 to 52+90 (ISGS Site 2645-19)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, B05 and B06 were sampled adjacent to ISGS Site No 2645-19. See Exhibits 4, 7, 4B, 7C and Table 23 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-3. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

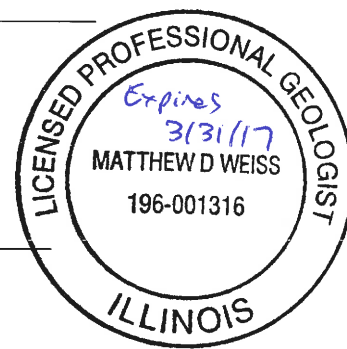
Printed Name:

Matt Weiss

8/1/16

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-19)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-19-B01 (0-3.6)	2645-19-B02 (0-3.6)	2645-19-B03 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)	(0-3.6)
		mg/kg	MSAs	pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
		Chicago						
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		0.0094	<0.038	0.0075
Acenaphthylene	mg/kg	0.03	0.07	85		<0.039	<0.038	0.0079
Anthracene	mg/kg	0.25	0.4	12000		0.025	<0.038	0.03
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.17	0.0066	0.24
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.23	<0.038	0.29
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.4	<0.038	0.47
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.096	<0.038	0.12
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.13	<0.038	0.21
Chrysene	mg/kg	1.2	2.7	88		0.24	<0.038	0.29
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.039	<0.038	0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.44	0.0085	0.47
Fluorene	mg/kg	0.1	0.18	560		0.01	<0.038	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.096	<0.038	0.12
Naphthalene	mg/kg	0.04	0.2	1.8		<0.039	<0.038	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.21	<0.038	0.15
Pyrene	mg/kg	1.9	3.0	2300		0.4	<0.038	0.52
Carbazole	mg/kg	---	---	0.6		<0.20	<0.19	<0.19
Dibenzofuran	mg/kg	---	---	---		<0.20	<0.19	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.039	<0.038	<0.038
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		8.2	7	7.9
Barium	mg/kg	---	110	1500		70	45	74
Cadmium	mg/kg	---	0.6	5.2		0.22	0.2	0.29
Chromium, total	mg/kg	---	16.2	21		15	8.8	14
Lead	mg/kg	---	36	107		20	11	33
Mercury	mg/kg	---	0.06	0.1		0.035	0.026	0.023
Selenium	mg/kg	---	0.48	1.3		0.43	<0.53	0.49
Silver	mg/kg	---	0.55	4.4		<0.29	<0.27	<0.25
Antimony	mg/kg	---	4.0	5		<1.2	0.42	<0.99
Beryllium	mg/kg	---	0.59	22		0.64	0.44	0.63
Calcium	mg/kg	---	9,300	---		82000	160000	71000
Cobalt	mg/kg	---	8.9	20		12	6.6	11
Copper	mg/kg	---	19.6	2900		23	12	21
Cyanide	mg/kg	---	0.51	---		<0.51	<0.56	<0.57
Iron	mg/kg	---	15,900	15000		18000	11000	18000
Magnesium	mg/kg	---	4,820	325000		37000	99000	28000
Manganese	mg/kg	---	636	630		560	290	480
Nickel	mg/kg	---	18	100		27	17	26
Potassium	mg/kg	---	1,268	---		1600	1100	1500
Sodium	mg/kg	---	130	---		700	420	300
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.53	<0.49
Vanadium	mg/kg	---	25.2	550		20	15	21
Zinc	mg/kg	---	95	5100		71	40	81
pH			6.25	9		8.73	8.79	8.71
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-19)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-19-B01 (0-3.6)	2645-19-B02 (0-3.6)	2645-19-B03 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)	(0-3.6)
				mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
		Chicago	MSAs					
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.87	0.49	0.41
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.42	0.61	0.54
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		310	340	400
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.017	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		130	130	120
Manganese,TCLP	mg/L	---	---	---		0.6	0.56	0.26
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		3.1	1.5	3.1
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	---	---	---		0.21	0.17	0.23

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-19)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-19-B05 (0-3.6)	2645-19-B06 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.036	<0.037
Acenaphthylene	mg/kg	0.03	0.07	85		<0.036	<0.037
Anthracene	mg/kg	0.25	0.4	12000		<0.036	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.036	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.036	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.0078	<0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.036	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.036	<0.037
Chrysene	mg/kg	1.2	2.7	88		<0.036	<0.037
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.036	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		0.01	<0.037
Fluorene	mg/kg	0.1	0.18	560		<0.036	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.036	<0.037
Naphthalene	mg/kg	0.04	0.2	1.8		<0.036	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.036	<0.037
Pyrene	mg/kg	1.9	3.0	2300		0.0088	<0.037
Carbazole	mg/kg	---	---	0.6		<0.18	<0.19
Dibenzofuran	mg/kg	---	---	---		<0.18	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.036	<0.037
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.2	10
Barium	mg/kg	---	110	1500		51	53
Cadmium	mg/kg	---	0.6	5.2		0.17	0.17
Chromium, total	mg/kg	---	16.2	21		12	13
Lead	mg/kg	---	36	107		14	17
Mercury	mg/kg	---	0.06	0.1		0.023	0.03
Selenium	mg/kg	---	0.48	1.3		0.39	0.4
Silver	mg/kg	---	0.55	4.4		<0.23	<0.23
Antimony	mg/kg	---	4.0	5		<0.92	0.25
Beryllium	mg/kg	---	0.59	22		0.55	0.61
Calcium	mg/kg	---	9,300	---		77000	70000
Cobalt	mg/kg	---	8.9	20		11	12
Copper	mg/kg	---	19.6	2900		18	21
Cyanide	mg/kg	---	0.51	---		<0.52	<0.50
Iron	mg/kg	---	15,900	15000		17000	19000
Magnesium	mg/kg	---	4,820	325000		34000	30000
Manganese	mg/kg	---	636	630		450	530
Nickel	mg/kg	---	18	100		25	28
Potassium	mg/kg	---	1,268	---		1200	1300
Sodium	mg/kg	---	130	---		130	190
Thallium	mg/kg	---	0.32	2.6		0.29	0.25
Vanadium	mg/kg	---	25.2	550		18	20
Zinc	mg/kg	---	95	5100		67	83
pH			6.25	9		8.44	8.52
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-19)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-19-B05 (0-3.6)	2645-19-B06 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)
		mg/kg	Date Collected	01/13/2016	01/13/2016		
		pH 6.25-9.0					
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.051	0.084
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.45	0.44
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		370	380
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	0.013
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		150	100
Manganese,TCLP	mg/L	---	---	---		0.49	0.54
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.1	1.9
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.045	0.084

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: 500-106314-3

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:07:24 PM

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Designee for

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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

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	9
Client Sample Results	10
Definitions	34
Certification Summary	35
Chain of Custody	36
Receipt Checklists	37

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Job ID: 500-106314-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106314-3

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-319947: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have 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 contained one acid and/or one base surrogate outside acceptance limits: 2645-19-B01 (0-3.6) (500-106314-9), 2645-19-B03 (0-3.6) (500-106314-11), 2645-19-B04 (0-3.6) (500-106314-12), (500-106314-F-1-B MS) and (500-106314-F-1-C MSD). 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

No analytical or quality issues were noted, other than those described 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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B01 (0-3.6)

Lab Sample ID: 500-106314-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0094	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.025	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.23		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.096		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.44		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.096		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.21		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.40		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	560	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	700		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.60		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.73		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-19-B02 (0-3.6)

Lab Sample ID: 500-106314-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0085	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.53	0.098	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B02 (0-3.6) (Continued)

Lab Sample ID: 500-106314-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.44		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.8	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	99000	B	53	22	mg/Kg	10	☼	6010B	Total/NA
Calcium	160000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	290	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-19-B03 (0-3.6)

Lab Sample ID: 500-106314-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0075	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0079	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.030	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.24		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.29		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.47		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.21		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.29		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.038		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.47		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.52		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	9.9	3.8	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B03 (0-3.6) (Continued)

Lab Sample ID: 500-106314-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	33		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Manganese	480	B	0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	300		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-19-B04 (0-3.6)

Lab Sample ID: 500-106314-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.42		0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.040		0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	1.2		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	1.4		0.19	0.095	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.24		0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.64		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.11		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.17		0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	4.9		0.38	0.051	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	5.3		0.38	0.074	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	7.7		0.38	0.082	mg/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	2.2		0.38	0.12	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	3.4		0.38	0.11	mg/Kg	10	☼	8270D	Total/NA
Chrysene - DL	5.8		0.38	0.10	mg/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.59		0.38	0.073	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene - DL	12		0.38	0.070	mg/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	2.2		0.38	0.099	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	5.7		0.38	0.053	mg/Kg	10	☼	8270D	Total/NA
Pyrene - DL	10		0.38	0.076	mg/Kg	10	☼	8270D	Total/NA
Arsenic	7.3		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.66		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	35	B	0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.1	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B04 (0-3.6) (Continued)

Lab Sample ID: 500-106314-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	36		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000	B	5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	870		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.058	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.19	J	0.53	0.17	mg/Kg	1	☼	9014	Total/NA
pH	8.78		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-19-B05 (0-3.6)

Lab Sample ID: 500-106314-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0078	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0088	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.46	0.084	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.18	0.040	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.092	0.027	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.46	0.079	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.23	0.052	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.46	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	9.2	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000	B	4.6	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	92	30	mg/Kg	10	☼	6010B	Total/NA
Manganese	450	B	0.46	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.46	0.12	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.23	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		0.92	0.29	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		46	6.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B05 (0-3.6) (Continued)

Lab Sample ID: 500-106314-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.016	0.0084	mg/Kg	1	☼	7471B	Total/NA
pH	8.44		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-19-B06 (0-3.6)

Lab Sample ID: 500-106314-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.25	J	0.90	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.45	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.090	0.026	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.45	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.45	0.098	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	90	29	mg/Kg	10	☼	6010B	Total/NA
Manganese	530	B	0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.25	J	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		0.90	0.29	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		45	6.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.084	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.084		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	8.52		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-9	2645-19-B01 (0-3.6)	Solid	01/13/16 10:00	01/14/16 11:00
500-106314-10	2645-19-B02 (0-3.6)	Solid	01/13/16 10:10	01/14/16 11:00
500-106314-11	2645-19-B03 (0-3.6)	Solid	01/13/16 10:25	01/14/16 11:00
500-106314-12	2645-19-B04 (0-3.6)	Solid	01/13/16 10:35	01/14/16 11:00
500-106314-13	2645-19-B05 (0-3.6)	Solid	01/13/16 10:50	01/14/16 11:00
500-106314-14	2645-19-B06 (0-3.6)	Solid	01/13/16 11:10	01/14/16 11:00



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B01 (0-3.6)

Lab Sample ID: 500-106314-9

Date Collected: 01/13/16 10:00

Matrix: Solid

Date Received: 01/14/16 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	<0.015		0.015	0.0029	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Chloroethane	<0.0037		0.0037	0.0016	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Chloromethane	<0.0037		0.0037	0.00090	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,2-Dichloropropane	<0.0037		0.0037	0.00098	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Ethylbenzene	<0.0037		0.0037	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Tetrachloroethene	<0.0037		0.0037	0.00078	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00087	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/14/16 14:15	01/18/16 19:27	1
Dibromofluoromethane	108		75 - 120	01/14/16 14:15	01/18/16 19:27	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/14/16 14:15	01/18/16 19:27	1
Toluene-d8 (Surr)	106		75 - 122	01/14/16 14:15	01/18/16 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0094	J	0.039	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Anthracene	0.025	J	0.039	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Benzo[a]anthracene	0.17		0.039	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B01 (0-3.6)

Lab Sample ID: 500-106314-9

Date Collected: 01/13/16 10:00

Matrix: Solid

Date Received: 01/14/16 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	0.23		0.039	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Benzo[g,h,i]perylene	0.096		0.039	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Benzo[k]fluoranthene	0.13		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Chrysene	0.24		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Fluoranthene	0.44		0.039	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Fluorene	0.010 J		0.039	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Indeno[1,2,3-cd]pyrene	0.096		0.039	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B01 (0-3.6)

Lab Sample ID: 500-106314-9

Date Collected: 01/13/16 10:00

Matrix: Solid

Date Received: 01/14/16 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	<0.78		0.78	0.37	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Phenanthrene	0.21		0.039	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
Pyrene	0.40		0.039	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	01/15/16 07:06	01/20/16 18:49	1
2-Fluorophenol	89		25 - 110	01/15/16 07:06	01/20/16 18:49	1
Nitrobenzene-d5	100		25 - 115	01/15/16 07:06	01/20/16 18:49	1
Phenol-d5	48		31 - 110	01/15/16 07:06	01/20/16 18:49	1
Terphenyl-d14	124		36 - 134	01/15/16 07:06	01/20/16 18:49	1
2,4,6-Tribromophenol	32	X	35 - 137	01/15/16 07:06	01/20/16 18:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Arsenic	8.2		0.58	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Barium	70		0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Beryllium	0.64		0.23	0.050	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Cadmium	0.22		0.12	0.034	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Chromium	15	B	0.58	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Cobalt	12		0.29	0.066	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Copper	23	B	0.58	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Iron	18000	B	12	4.5	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Lead	20		0.29	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Magnesium	37000	B	5.8	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Calcium	82000	B	120	37	mg/Kg	☼	01/15/16 08:54	01/15/16 23:03	10
Manganese	560	B	0.58	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Nickel	27		0.58	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Selenium	0.43	J	0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Vanadium	20		0.29	0.085	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Zinc	71		1.2	0.37	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Potassium	1600		29	4.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1
Sodium	700		58	7.7	mg/Kg	☼	01/15/16 08:54	01/15/16 20:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Barium	0.42	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B01 (0-3.6)

Lab Sample ID: 500-106314-9

Date Collected: 01/13/16 10:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Copper	0.017	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:04	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:04	1
Manganese	0.60		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Potassium	3.1		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:04	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:04	1
Zinc	0.21	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.87		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 16:47	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		01/18/16 15:00	01/20/16 19:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:10	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		01/18/16 13:30	01/19/16 12:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	01/20/16 12:15	01/20/16 15:56	1
pH	8.73		0.200	0.200	SU			01/19/16 15:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B02 (0-3.6)

Lab Sample ID: 500-106314-10

Date Collected: 01/13/16 10:10

Matrix: Solid

Date Received: 01/14/16 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	<0.016		0.016	0.0032	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	01/14/16 14:15	01/18/16 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/14/16 14:15	01/18/16 19:52	1
Dibromofluoromethane	106		75 - 120	01/14/16 14:15	01/18/16 19:52	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/14/16 14:15	01/18/16 19:52	1
Toluene-d8 (Surr)	111		75 - 122	01/14/16 14:15	01/18/16 19:52	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	☼	01/15/16 07:06	01/20/16 13:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B02 (0-3.6)

Lab Sample ID: 500-106314-10

Date Collected: 01/13/16 10:10

Matrix: Solid

Date Received: 01/14/16 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	<0.038		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Fluoranthene	0.0085	J	0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B02 (0-3.6)

Lab Sample ID: 500-106314-10

Date Collected: 01/13/16 10:10

Matrix: Solid

Date Received: 01/14/16 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	<0.78		0.78	0.37	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	01/15/16 07:06	01/20/16 13:03	1
2-Fluorophenol	91		25 - 110	01/15/16 07:06	01/20/16 13:03	1
Nitrobenzene-d5	101		25 - 115	01/15/16 07:06	01/20/16 13:03	1
Phenol-d5	50		31 - 110	01/15/16 07:06	01/20/16 13:03	1
Terphenyl-d14	111		36 - 134	01/15/16 07:06	01/20/16 13:03	1
2,4,6-Tribromophenol	72		35 - 137	01/15/16 07:06	01/20/16 13:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Arsenic	7.0		0.53	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Barium	45		0.53	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Beryllium	0.44		0.21	0.046	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Cadmium	0.20		0.11	0.031	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Chromium	8.8	B	0.53	0.092	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Cobalt	6.6		0.27	0.060	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Copper	12	B	0.53	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Iron	11000	B	11	4.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Lead	11		0.27	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Magnesium	99000	B	53	22	mg/Kg	☼	01/15/16 08:54	01/15/16 23:07	10
Calcium	160000	B	110	34	mg/Kg	☼	01/15/16 08:54	01/15/16 23:07	10
Manganese	290	B	0.53	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Nickel	17		0.53	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Vanadium	15		0.27	0.078	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Zinc	40		1.1	0.34	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Potassium	1100		27	4.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1
Sodium	420		53	7.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Barium	0.61		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B02 (0-3.6)

Lab Sample ID: 500-106314-10

Date Collected: 01/13/16 10:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:11	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:11	1
Manganese	0.56		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Potassium	1.5 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:11	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:11	1
Zinc	0.17 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.49		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 16:53	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		01/18/16 15:00	01/20/16 19:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	01/20/16 12:15	01/20/16 15:57	1
pH	8.79		0.200	0.200	SU			01/19/16 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B03 (0-3.6)

Lab Sample ID: 500-106314-11

Date Collected: 01/13/16 10:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/19/16 11:28	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/19/16 11:28	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/14/16 14:15	01/19/16 11:28	1
Toluene-d8 (Surr)	110		75 - 122	01/14/16 14:15	01/19/16 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0075	J	0.038	0.0069	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Acenaphthylene	0.0079	J	0.038	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Anthracene	0.030	J	0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Benzo[a]anthracene	0.24		0.038	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B03 (0-3.6)

Lab Sample ID: 500-106314-11

Date Collected: 01/13/16 10:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.29		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Benzo[b]fluoranthene	0.47		0.038	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Benzo[k]fluoranthene	0.21		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Chrysene	0.29		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Dibenz(a,h)anthracene	0.038		0.038	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Fluoranthene	0.47		0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B03 (0-3.6)

Lab Sample ID: 500-106314-11

Date Collected: 01/13/16 10:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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	☼	01/15/16 07:06	01/20/16 19:12	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Phenanthrene	0.15		0.038	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
Pyrene	0.52		0.038	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		25 - 119	01/15/16 07:06	01/20/16 19:12	1
2-Fluorophenol	93		25 - 110	01/15/16 07:06	01/20/16 19:12	1
Nitrobenzene-d5	102		25 - 115	01/15/16 07:06	01/20/16 19:12	1
Phenol-d5	62		31 - 110	01/15/16 07:06	01/20/16 19:12	1
Terphenyl-d14	158	X	36 - 134	01/15/16 07:06	01/20/16 19:12	1
2,4,6-Tribromophenol	54		35 - 137	01/15/16 07:06	01/20/16 19:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.20	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Arsenic	7.9		0.49	0.23	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Barium	74		0.49	0.090	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Beryllium	0.63		0.20	0.043	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Cadmium	0.29		0.099	0.029	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Chromium	14	B	0.49	0.085	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Cobalt	11		0.25	0.056	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Copper	21	B	0.49	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Iron	18000	B	9.9	3.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Lead	33		0.25	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Magnesium	28000	B	4.9	2.0	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Calcium	71000	B	99	32	mg/Kg	☼	01/15/16 08:54	01/15/16 23:12	10
Manganese	480	B	0.49	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Nickel	26		0.49	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Selenium	0.49		0.49	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Vanadium	21		0.25	0.072	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Zinc	81		0.99	0.31	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Potassium	1500		25	4.0	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1
Sodium	300		49	6.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Barium	0.54		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B03 (0-3.6)

Lab Sample ID: 500-106314-11

Date Collected: 01/13/16 10:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:18	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:18	1
Magnesium	120		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:18	1
Manganese	0.26		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Potassium	3.1		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:18	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:18	1
Zinc	0.23	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.41		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 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		01/18/16 15:00	01/20/16 19:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:17	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		01/18/16 13:30	01/19/16 12:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0096	mg/Kg	☼	01/15/16 15:15	01/18/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/20/16 12:15	01/20/16 15:57	1
pH	8.71		0.200	0.200	SU			01/19/16 15:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B04 (0-3.6)

Lab Sample ID: 500-106314-12

Date Collected: 01/13/16 10:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	01/14/16 14:15	01/19/16 11:53	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/19/16 11:53	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/14/16 14:15	01/19/16 11:53	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/19/16 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.42		0.038	0.0068	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Acenaphthylene	0.040		0.038	0.0050	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Anthracene	1.2		0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B04 (0-3.6)

Lab Sample ID: 500-106314-12

Date Collected: 01/13/16 10:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Carbazole	1.4		0.19	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Dibenzofuran	0.24		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Fluorene	0.64		0.038	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Methylnaphthalene	0.11		0.038	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Naphthalene	0.17		0.038	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B04 (0-3.6)

Lab Sample ID: 500-106314-12

Date Collected: 01/13/16 10:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 84.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	01/15/16 07:06	01/20/16 19:35	1
2-Fluorophenol	85		25 - 110	01/15/16 07:06	01/20/16 19:35	1
Nitrobenzene-d5	96		25 - 115	01/15/16 07:06	01/20/16 19:35	1
Phenol-d5	63		31 - 110	01/15/16 07:06	01/20/16 19:35	1
Terphenyl-d14	157	X	36 - 134	01/15/16 07:06	01/20/16 19:35	1
2,4,6-Tribromophenol	75		35 - 137	01/15/16 07:06	01/20/16 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	4.9		0.38	0.051	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Benzo[a]pyrene	5.3		0.38	0.074	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Benzo[b]fluoranthene	7.7		0.38	0.082	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Benzo[g,h,i]perylene	2.2		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Benzo[k]fluoranthene	3.4		0.38	0.11	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Chrysene	5.8		0.38	0.10	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Dibenz(a,h)anthracene	0.59		0.38	0.073	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Fluoranthene	12		0.38	0.070	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Indeno[1,2,3-cd]pyrene	2.2		0.38	0.099	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Phenanthrene	5.7		0.38	0.053	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10
Pyrene	10		0.38	0.076	mg/Kg	☼	01/15/16 07:06	01/22/16 11:18	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Arsenic	7.3		0.53	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Barium	100		0.53	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Beryllium	0.70		0.21	0.046	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Cadmium	0.66		0.11	0.031	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Chromium	19	B	0.53	0.092	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Cobalt	9.3		0.27	0.060	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Copper	35	B	0.53	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Iron	17000	B	11	4.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Lead	36		0.27	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Magnesium	12000	B	5.3	2.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Calcium	19000	B	11	3.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Manganese	390	B	0.53	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Nickel	21		0.53	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Selenium	0.49	J	0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Silver	1.1		0.27	0.063	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Vanadium	24		0.27	0.078	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Zinc	110		1.1	0.34	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Potassium	1100		27	4.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1
Sodium	870		53	7.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Barium	0.52		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B04 (0-3.6)

Lab Sample ID: 500-106314-12

Date Collected: 01/13/16 10:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:24	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:24	1
Manganese	0.46		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Potassium	2.5		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:24	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:24	1
Zinc	0.058	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.38		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/18/16 15:00	01/20/16 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:20	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		01/18/16 13:30	01/19/16 12:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.53	0.17	mg/Kg	☼	01/20/16 12:15	01/20/16 15:57	1
pH	8.78		0.200	0.200	SU			01/19/16 15:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B05 (0-3.6)

Lab Sample ID: 500-106314-13

Date Collected: 01/13/16 10:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Bromodichloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,1-Dichloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Vinyl chloride	<0.0041		0.0041	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/14/16 14:15	01/19/16 12:18	1
Dibromofluoromethane	105		75 - 120	01/14/16 14:15	01/19/16 12:18	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/14/16 14:15	01/19/16 12:18	1
Toluene-d8 (Surr)	110		75 - 122	01/14/16 14:15	01/19/16 12:18	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	☼	01/15/16 07:06	01/20/16 13:27	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B05 (0-3.6)

Lab Sample ID: 500-106314-13

Date Collected: 01/13/16 10:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 90.0

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	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Benzo[b]fluoranthene	0.0078	J	0.036	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Fluoranthene	0.010	J	0.036	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B05 (0-3.6)

Lab Sample ID: 500-106314-13

Date Collected: 01/13/16 10:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 90.0

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	☼	01/15/16 07:06	01/20/16 13:27	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
Pyrene	0.0088	J	0.036	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	01/15/16 07:06	01/20/16 13:27	1
2-Fluorophenol	92		25 - 110	01/15/16 07:06	01/20/16 13:27	1
Nitrobenzene-d5	108		25 - 115	01/15/16 07:06	01/20/16 13:27	1
Phenol-d5	63		31 - 110	01/15/16 07:06	01/20/16 13:27	1
Terphenyl-d14	115		36 - 134	01/15/16 07:06	01/20/16 13:27	1
2,4,6-Tribromophenol	46		35 - 137	01/15/16 07:06	01/20/16 13:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.92		0.92	0.19	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Arsenic	8.2		0.46	0.21	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Barium	51		0.46	0.084	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Beryllium	0.55		0.18	0.040	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Cadmium	0.17		0.092	0.027	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Chromium	12	B	0.46	0.079	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Cobalt	11		0.23	0.052	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Copper	18	B	0.46	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Iron	17000	B	9.2	3.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Lead	14		0.23	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Magnesium	34000	B	4.6	1.9	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Calcium	77000	B	92	30	mg/Kg	☼	01/15/16 08:54	01/15/16 23:20	10
Manganese	450	B	0.46	0.091	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Nickel	25		0.46	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Selenium	0.39	J	0.46	0.23	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Thallium	0.29	J	0.46	0.23	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Vanadium	18		0.23	0.067	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Zinc	67		0.92	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Potassium	1200		23	3.7	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1
Sodium	130		46	6.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Barium	0.45	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B05 (0-3.6)

Lab Sample ID: 500-106314-13

Date Collected: 01/13/16 10:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:31	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:31	1
Magnesium	150		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:31	1
Manganese	0.49		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Potassium	2.1 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:31	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:31	1
Zinc	0.045 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.051		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:14	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		01/18/16 15:00	01/20/16 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.016	0.0084	mg/Kg	☼	01/15/16 15:15	01/18/16 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/20/16 12:15	01/20/16 15:58	1
pH	8.44		0.200	0.200	SU			01/19/16 15:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B06 (0-3.6)

Lab Sample ID: 500-106314-14

Date Collected: 01/13/16 11:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/14/16 14:15	01/19/16 12:44	1
Dibromofluoromethane	102		75 - 120	01/14/16 14:15	01/19/16 12:44	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/14/16 14:15	01/19/16 12:44	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/19/16 12:44	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	☼	01/15/16 07:06	01/20/16 15:23	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B06 (0-3.6)

Lab Sample ID: 500-106314-14

Date Collected: 01/13/16 11:10

Matrix: Solid

Date Received: 01/14/16 11:00

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	<0.037		0.037	0.0073	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B06 (0-3.6)

Lab Sample ID: 500-106314-14

Date Collected: 01/13/16 11:10

Matrix: Solid

Date Received: 01/14/16 11:00

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	<0.76		0.76	0.36	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		25 - 119	01/15/16 07:06	01/20/16 15:23	1
2-Fluorophenol	95		25 - 110	01/15/16 07:06	01/20/16 15:23	1
Nitrobenzene-d5	107		25 - 115	01/15/16 07:06	01/20/16 15:23	1
Phenol-d5	67		31 - 110	01/15/16 07:06	01/20/16 15:23	1
Terphenyl-d14	116		36 - 134	01/15/16 07:06	01/20/16 15:23	1
2,4,6-Tribromophenol	66		35 - 137	01/15/16 07:06	01/20/16 15:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	0.90	0.19	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Arsenic	10		0.45	0.21	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Barium	53		0.45	0.083	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Beryllium	0.61		0.18	0.039	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Cadmium	0.17		0.090	0.026	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Chromium	13	B	0.45	0.078	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Cobalt	12		0.23	0.051	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Copper	21	B	0.45	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Iron	19000	B	9.0	3.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Lead	17		0.23	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Magnesium	30000	B	4.5	1.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Calcium	70000	B	90	29	mg/Kg	☼	01/15/16 08:54	01/15/16 23:24	10
Manganese	530	B	0.45	0.089	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Nickel	28		0.45	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Selenium	0.40	J	0.45	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Thallium	0.25	J	0.45	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Vanadium	20		0.23	0.066	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Zinc	83		0.90	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Potassium	1300		23	3.7	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1
Sodium	190		45	6.0	mg/Kg	☼	01/15/16 08:54	01/15/16 21:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Barium	0.44	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Client Sample ID: 2645-19-B06 (0-3.6)

Lab Sample ID: 500-106314-14

Date Collected: 01/13/16 11:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Copper	0.013	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:38	1
Magnesium	100		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:38	1
Manganese	0.54		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Potassium	1.9	J	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:38	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:38	1
Zinc	0.084	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.084		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/18/16 15:00	01/20/16 19:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0088	mg/Kg	☼	01/15/16 15:15	01/18/16 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	01/20/16 12:15	01/20/16 15:59	1
pH	8.52		0.200	0.200	SU			01/19/16 15:40	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
X	Surrogate is outside control 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.

General Chemistry

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-3

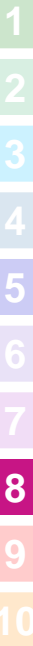
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: _____
 Address: _____
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 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106314

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservatives		Parameter		Matrix		Comments		
		<u>1157112</u>										
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key		
		<u>Bartlett, IL</u>				<u>CTK</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		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics
			Date	Time								
<u>9</u>		<u>2645-19-B01 (0-3.6)</u>	<u>1/13/16</u>	<u>10:00</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>2645-19-B02 (0-3.6)</u>	<u>1/13/16</u>	<u>10:10</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>11</u>		<u>2645-19-B03 (0-3.6)</u>	<u>1/13/16</u>	<u>10:25</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>12</u>		<u>2645-19-B04 (0-3.6)</u>	<u>1/13/16</u>	<u>10:35</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>13</u>		<u>2645-19-B05 (0-3.6)</u>	<u>1/13/16</u>	<u>10:50</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>14</u>		<u>2645-19-B06 (0-3.6)</u>	<u>1/13/16</u>	<u>11:10</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>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>	Received By <u>Matt</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>
Relinquished By <u>Matt</u>	Company <u>Terracon</u>	Date <u>1/14/16</u>	Time <u>9:10</u>	Received By <u>David Boden</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>9:10</u>
Relinquished By <u>David Boden</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>11:00</u>	Received By <u>Shirley</u>	Company <u>TA-CHI</u>	Date <u>1/14/16</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 WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: Met IL TACO requirements, & please HOLD SPLP requirements, thank you

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-3

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 53+10 to 54+05 (ISGS Site 2645-20)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-20.
See Exhibits 5, 5A and Table 25 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-4. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

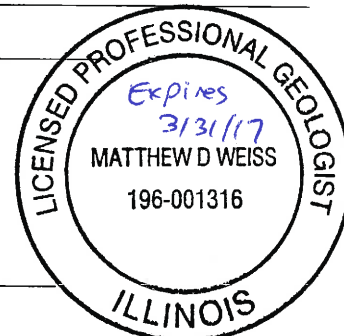
Matt Weiss
 Printed Name:

[Signature]

8/1/16

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-20)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-20-B01 (0-3)	2645-20-B01 (0-3) Dup
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	0.011
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	0.013
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	0.026
Chrysene	mg/kg	1.2	2.7	88		<0.038	0.016
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	0.029
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	0.0092
Pyrene	mg/kg	1.9	3.0	2300		<0.038	0.024
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.3	11
Barium	mg/kg	---	110	1500		59	75
Cadmium	mg/kg	---	0.6	5.2		0.17	0.19
Chromium, total	mg/kg	---	16.2	21		14	15
Lead	mg/kg	---	36	107		14	19
Mercury	mg/kg	---	0.06	0.1		0.025	0.032
Selenium	mg/kg	---	0.48	1.3		<0.58	0.39
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30
Antimony	mg/kg	---	4.0	5		0.24	0.26
Beryllium	mg/kg	---	0.59	22		0.65	0.72
Calcium	mg/kg	---	9,300	---		83000	35000
Cobalt	mg/kg	---	8.9	20		9.9	12
Copper	mg/kg	---	19.6	2900		19	21
Cyanide	mg/kg	---	0.51	---		<0.55	<0.59
Iron	mg/kg	---	15,900	15000		18000	22000
Magnesium	mg/kg	---	4,820	325000		39000	23000
Manganese	mg/kg	---	636	630		450	560
Nickel	mg/kg	---	18	100		25	28
Potassium	mg/kg	---	1,268	---		1500	1400
Sodium	mg/kg	---	130	---		150	150
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.59
Vanadium	mg/kg	---	25.2	550		20	26
Zinc	mg/kg	---	95	5100		66	88
pH			6.25	9		8.51	8.3
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.17	0.26
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-20)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-20-B01 (0-3)	2645-20-B01 (0-3) Dup
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.4	0.45
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		390	370
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.014	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		110	130
Manganese,TCLP	mg/L	---	---	---		0.48	0.38
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.9	1.2
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.19	0.03

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: 500-106314-4

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:08:20 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

Review your project
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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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	6
Client Sample Results	7
Definitions	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Job ID: 500-106314-4

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106314-4

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-319947: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have 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 contained one acid and/or one base surrogate outside acceptance limits: (500-106314-F-1-B MS) and (500-106314-F-1-C MSD). 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

No analytical or quality issues were noted, other than those described 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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3)

Lab Sample ID: 500-106314-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.24	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	83000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.51		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-20-B01 (0-3) Dup

Lab Sample ID: 500-106314-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.026	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.029	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0092	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.9	2.4	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3) Dup (Continued)

Lab Sample ID: 500-106314-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	560	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	88		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.30		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-20-B02- (0-3)

Lab Sample ID: 500-106314-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	26	B	0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	30000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	780	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	880		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	860		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	47		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.62		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	18		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.048		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.67		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-15	2645-20-B01 (0-3)	Solid	01/13/16 11:30	01/14/16 11:00
500-106314-16	2645-20-B01 (0-3) Dup	Solid	01/13/16 11:35	01/14/16 11:00
500-106314-17	2645-20-B02- (0-3)	Solid	01/13/16 11:50	01/14/16 11:00

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3)

Lab Sample ID: 500-106314-15

Date Collected: 01/13/16 11:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/19/16 13:09	1
Dibromofluoromethane	101		75 - 120	01/14/16 14:15	01/19/16 13:09	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/14/16 14:15	01/19/16 13:09	1
Toluene-d8 (Surr)	107		75 - 122	01/14/16 14:15	01/19/16 13:09	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	☼	01/15/16 07:06	01/20/16 15:46	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3)

Lab Sample ID: 500-106314-15

Date Collected: 01/13/16 11:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.4

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	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3)

Lab Sample ID: 500-106314-15

Date Collected: 01/13/16 11:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.4

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	☼	01/15/16 07:06	01/20/16 15:46	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	01/15/16 07:06	01/20/16 15:46	1
2-Fluorophenol	92		25 - 110	01/15/16 07:06	01/20/16 15:46	1
Nitrobenzene-d5	101		25 - 115	01/15/16 07:06	01/20/16 15:46	1
Phenol-d5	61		31 - 110	01/15/16 07:06	01/20/16 15:46	1
Terphenyl-d14	113		36 - 134	01/15/16 07:06	01/20/16 15:46	1
2,4,6-Tribromophenol	57		35 - 137	01/15/16 07:06	01/20/16 15:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.2	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Arsenic	8.3		0.58	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Barium	59		0.58	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Beryllium	0.65		0.23	0.050	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Cadmium	0.17		0.12	0.034	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Chromium	14	B	0.58	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Cobalt	9.9		0.29	0.066	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Copper	19	B	0.58	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Iron	18000	B	12	4.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Lead	14		0.29	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Magnesium	39000	B	5.8	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Calcium	83000	B	120	37	mg/Kg	☼	01/15/16 08:54	01/15/16 23:35	10
Manganese	450	B	0.58	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Nickel	25		0.58	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Vanadium	20		0.29	0.085	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Zinc	66		1.2	0.37	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Potassium	1500		29	4.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1
Sodium	150		58	7.7	mg/Kg	☼	01/15/16 08:54	01/15/16 21:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Barium	0.40	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3)

Lab Sample ID: 500-106314-15

Date Collected: 01/13/16 11:30

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Copper	0.014	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:45	1
Magnesium	110		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:45	1
Manganese	0.48		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Potassium	1.9	J	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:45	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:45	1
Zinc	0.19	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:27	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		01/18/16 15:00	01/20/16 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/20/16 12:15	01/20/16 15:59	1
pH	8.51		0.200	0.200	SU			01/19/16 15:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3) Dup

Lab Sample ID: 500-106314-16

Date Collected: 01/13/16 11:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/19/16 13:34	1
Dibromofluoromethane	104		75 - 120	01/14/16 14:15	01/19/16 13:34	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/14/16 14:15	01/19/16 13:34	1
Toluene-d8 (Surr)	106		75 - 122	01/14/16 14:15	01/19/16 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3) Dup

Lab Sample ID: 500-106314-16

Date Collected: 01/13/16 11:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.013	J	0.040	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Benzo[b]fluoranthene	0.026	J	0.040	0.0086	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Chrysene	0.016	J	0.040	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Fluoranthene	0.029	J	0.040	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3) Dup

Lab Sample ID: 500-106314-16

Date Collected: 01/13/16 11:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 80.9

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	☼	01/15/16 07:06	01/20/16 16:08	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Phenanthrene	0.0092	J	0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
Pyrene	0.024	J	0.040	0.0079	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	01/15/16 07:06	01/20/16 16:08	1
2-Fluorophenol	85		25 - 110	01/15/16 07:06	01/20/16 16:08	1
Nitrobenzene-d5	95		25 - 115	01/15/16 07:06	01/20/16 16:08	1
Phenol-d5	58		31 - 110	01/15/16 07:06	01/20/16 16:08	1
Terphenyl-d14	115		36 - 134	01/15/16 07:06	01/20/16 16:08	1
2,4,6-Tribromophenol	50		35 - 137	01/15/16 07:06	01/20/16 16:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.2	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Arsenic	11		0.59	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Barium	75		0.59	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Beryllium	0.72		0.24	0.051	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Cadmium	0.19		0.12	0.034	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Chromium	15	B	0.59	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Cobalt	12		0.30	0.067	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Copper	21	B	0.59	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Iron	22000	B	12	4.6	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Lead	19		0.30	0.15	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Magnesium	23000	B	5.9	2.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Calcium	35000	B	12	3.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Manganese	560	B	0.59	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Nickel	28		0.59	0.16	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Selenium	0.39	J	0.59	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Vanadium	26		0.30	0.086	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Zinc	88		1.2	0.37	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Potassium	1400		30	4.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1
Sodium	150		59	7.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Barium	0.45	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B01 (0-3) Dup

Lab Sample ID: 500-106314-16

Date Collected: 01/13/16 11:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:51	1
Magnesium	130		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:51	1
Manganese	0.38		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Potassium	1.2 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:51	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:51	1
Zinc	0.030 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:34	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		01/18/16 15:00	01/20/16 19:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 12:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.010	mg/Kg	☼	01/15/16 15:15	01/18/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	01/20/16 12:15	01/20/16 15:59	1
pH	8.30		0.200	0.200	SU			01/19/16 15:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B02- (0-3)

Lab Sample ID: 500-106314-17

Date Collected: 01/13/16 11:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Bromodichloromethane	<0.0056		0.0056	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Carbon disulfide	<0.0056		0.0056	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Chloroethane	<0.0056		0.0056	0.0023	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Dibromochloromethane	<0.0056		0.0056	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,1-Dichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Toluene	<0.0056		0.0056	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/14/16 14:15	01/19/16 13:59	1
Dibromofluoromethane	110		75 - 120	01/14/16 14:15	01/19/16 13:59	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	01/14/16 14:15	01/19/16 13:59	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/19/16 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B02- (0-3)

Lab Sample ID: 500-106314-17

Date Collected: 01/13/16 11:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B02- (0-3)

Lab Sample ID: 500-106314-17

Date Collected: 01/13/16 11:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		25 - 119	01/15/16 07:06	01/20/16 16:31	1
2-Fluorophenol	99		25 - 110	01/15/16 07:06	01/20/16 16:31	1
Nitrobenzene-d5	110		25 - 115	01/15/16 07:06	01/20/16 16:31	1
Phenol-d5	61		31 - 110	01/15/16 07:06	01/20/16 16:31	1
Terphenyl-d14	124		36 - 134	01/15/16 07:06	01/20/16 16:31	1
2,4,6-Tribromophenol	58		35 - 137	01/15/16 07:06	01/20/16 16:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Arsenic	15		0.55	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Barium	85		0.55	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Beryllium	0.79		0.22	0.047	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Cadmium	0.081	J	0.11	0.032	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Chromium	16	B	0.55	0.094	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Cobalt	14		0.27	0.062	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Copper	26	B	0.55	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Iron	30000	B	11	4.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Lead	29		0.27	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Magnesium	2700	B	5.5	2.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Calcium	1600	B	11	3.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Manganese	780	B	0.55	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Nickel	38		0.55	0.15	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Selenium	0.46	J	0.55	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Thallium	0.39	J	0.55	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Vanadium	27		0.27	0.080	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Zinc	120		1.1	0.35	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Potassium	880		27	4.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1
Sodium	860		55	7.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Barium	0.28	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Client Sample ID: 2645-20-B02- (0-3)

Lab Sample ID: 500-106314-17

Date Collected: 01/13/16 11:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Iron	0.62		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 20:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 20:58	1
Magnesium	18		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:58	1
Manganese	0.027		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Potassium	1.1 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 20:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 20:58	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 20:58	1
Zinc	0.13 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 20:58	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		01/18/16 15:00	01/20/16 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:47	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		01/18/16 13:30	01/19/16 12:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	01/20/16 12:15	01/20/16 16:00	1
pH	8.67		0.200	0.200	SU			01/19/16 15:51	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-4

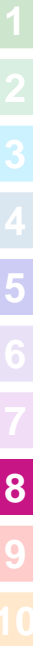
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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:	<u>Matt Weiss</u>	Contact:	_____
Company:	<u>Terracon</u>	Company:	_____
Address:	_____	Address:	_____
Address:	_____	Address:	_____
Phone:	_____	Phone:	_____
Fax:	_____	Fax:	_____
E-Mail:	<u>Matt.Weisse@terracon.com</u>	PO#/Reference#	_____

Chain of Custody Record

Lab Job #: SD0-106314

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
Project Name		Lab Project #		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 PM															
Sampler																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SUOLS	23 TAL	Inorganics	TCLP 23 TAL	Inorganics	PH	SPLP 23 TAL	Inorganics	Comments	
15		2645-20-001 (0-3)	1/13/16	11:30	5	S	✓	✓	✓	✓	✓	✓	✓				HOLD SPLP
16		2645-20-001 Dup (0-3)	1/13/16	11:35	5	S	✓	✓	✓	✓	✓	✓	✓				analysis.
17		2645-20-002 (0-3)	1/13/16	11:50	5	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	Company	Date	Time	Received By	Company	Date	Time
<u>David Kelly</u>	<u>Terracon</u>	<u>1/13/16</u>	<u>5:30</u>	<u>Matt</u>	<u>Terracon</u>	<u>1/13/16</u>	<u>5:30</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>Matt</u>	<u>Terracon</u>	<u>1/14/16</u>	<u>9:10</u>	<u>David Beeken</u>	<u>TA</u>	<u>1/14/16</u>	<u>9:10</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>David Beeken</u>	<u>TA</u>	<u>1/14/16</u>	<u>11:00</u>	<u>Shirley</u>	<u>TA</u>	<u>1/14/16</u>	<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 WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments:

met IC TALO Requirements & Please
HOLD SPLP analysis. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-4

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59/Stearns Road IDOT STA 120+35 to 120+95, 121+70 to 122+50, 43+00 to 46+25, 46+95 to 47+50 (ISGS Site 2645-22)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, B04, B06, B07 and B09 were sampled adjacent to ISGS Site No 2645-22. See Exhibits 3.4.8.9, 3B, 4B, 8A, 9A and Table 27 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-1. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

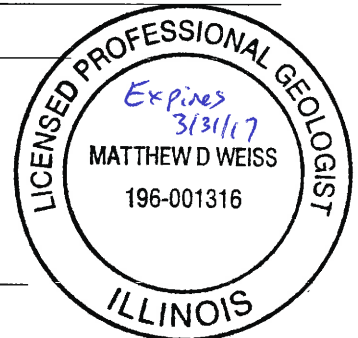
Printed Name:

Matt Weiss

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/1/16

Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B01 (0-2.2)	2645-22-B02 (0-2.2)	2645-22-B03 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)	(0-2.2)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters								
Anthracene	mg/kg	0.25	0.4	12000		<0.039	<0.038	0.0091
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	0.0070	0.035
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	<0.038	0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039	0.012	0.053
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	<0.038	0.023
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	<0.038	0.026
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.011	0.045
Fluoranthene	mg/kg	2.7	4.1	3100		0.0098	0.018	0.095
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	<0.038	0.024
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	0.010	0.048
Pyrene	mg/kg	1.9	3.0	2300		0.0078	0.013	0.071
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		10	8.7	9.7
Barium	mg/kg	---	110	1500		85	92	66
Cadmium	mg/kg	---	0.6	5.2		<0.11	0.049	0.053
Chromium, total	mg/kg	---	16.2	21		16	15	15
Lead	mg/kg	---	36	107		22	20	19
Mercury	mg/kg	---	0.06	0.1		0.033	0.030	0.033
Selenium	mg/kg	---	0.48	1.3		0.52	0.27	0.54
Silver	mg/kg	---	0.55	4.4		<0.27	<0.28	<0.26
Antimony	mg/kg	---	4.0	5		<1.1	<1.1	<1.0
Beryllium	mg/kg	---	0.59	22		0.68	0.65	0.67
Calcium	mg/kg	---	9,300	---		16000	14000	25000
Cobalt	mg/kg	---	8.9	20		13	12	12
Copper	mg/kg	---	19.6	2900		21	19	22
Cyanide	mg/kg	---	0.51	---		<0.52	<0.54	<0.50
Iron	mg/kg	---	15,900	15000		21000	19000	20000
Magnesium	mg/kg	---	4,820	325000		12000	9900	17000
Manganese	mg/kg	---	636	630		590	650	490
Nickel	mg/kg	---	18	100		29	26	30
Potassium	mg/kg	---	1,268	---		1400	1400	1400
Sodium	mg/kg	---	130	---		190	170	170
Thallium	mg/kg	---	0.32	2.6		0.36	<0.55	0.28
Vanadium	mg/kg	---	25.2	550		25	24	21
Zinc	mg/kg	---	95	5100		91	79	93
pH			6.25	9		8.33	7.71	7.47
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	--	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B01 (0-2.2)	2645-22-B02 (0-2.2)	2645-22-B03 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)	(0-2.2)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.39	0.55	0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		210	240	260
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		110	120	110
Manganese,TCLP	mg/L	---	---	---		0.066	0.13	0.14
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.2	2.9	1.8
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	---	---	---		<0.50	<0.50	0.090

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B04 (0-2.2)	2645-22-B06 (0-2.2)	2645-22-B07 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)	(0-2.2)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters								
Anthracene	mg/kg	0.25	0.4	12000		<0.037	0.010	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.15	0.011
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.18	0.015
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.31	0.028
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	0.080	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.11	<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.22	0.017
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.33	0.025
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	0.081	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.065	0.0097
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.28	0.026
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		8.3	7.3	7.6
Barium	mg/kg	---	110	1500		70	130	77
Cadmium	mg/kg	---	0.6	5.2		0.066	0.18	0.066
Chromium, total	mg/kg	---	16.2	21		14	15	12
Lead	mg/kg	---	36	107		13	33	26
Mercury	mg/kg	---	0.06	0.1		0.022	0.039	0.022
Selenium	mg/kg	---	0.48	1.3		<0.53	0.55	<0.55
Silver	mg/kg	---	0.55	4.4		<0.27	<0.27	<0.27
Antimony	mg/kg	---	4.0	5		<1.1	<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.56	0.68	0.55
Calcium	mg/kg	---	9,300	---		79000	2800	82000
Cobalt	mg/kg	---	8.9	20		12	10	9.3
Copper	mg/kg	---	19.6	2900		21	15	22
Cyanide	mg/kg	---	0.51	---		<0.53	<0.63	<0.54
Iron	mg/kg	---	15,900	15000		18000	17000	16000
Magnesium	mg/kg	---	4,820	325000		31000	2000	29000
Manganese	mg/kg	---	636	630		420	810	480
Nickel	mg/kg	---	18	100		29	21	20
Potassium	mg/kg	---	1,268	---		1700	1500	1100
Sodium	mg/kg	---	130	---		280	1700	910
Thallium	mg/kg	---	0.32	2.6		0.30	0.28	0.37
Vanadium	mg/kg	---	25.2	550		18	26	27
Zinc	mg/kg	---	95	5100		64	93	61
pH			6.25	9		8.40	8.27	8.83
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	0.065	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.085	--	0.34
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B04 (0-2.2)	2645-22-B06 (0-2.2)	2645-22-B07 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)	(0-2.2)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.39	0.24	0.49
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	0.034	<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	---	---	---		330	36	260
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	4.3	<0.40
Magnesium,TCLP	mg/L	---	---	---		86	8.3	120
Manganese,TCLP	mg/L	---	---	---		0.32	0.062	0.25
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.2	3.4	1.3
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	---	---	---		<0.50	0.032	<0.50

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B09 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		0.012
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.039
Pyrene	mg/kg	1.9	3.0	2300		0.0091
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6.5
Barium	mg/kg	---	110	1500		110
Cadmium	mg/kg	---	0.6	5.2		0.46
Chromium, total	mg/kg	---	16.2	21		17
Lead	mg/kg	---	36	107		24
Mercury	mg/kg	---	0.06	0.1		0.065
Selenium	mg/kg	---	0.48	1.3		0.66
Silver	mg/kg	---	0.55	4.4		1.1
Antimony	mg/kg	---	4.0	5		<1.0
Beryllium	mg/kg	---	0.59	22		0.56
Calcium	mg/kg	---	9,300	---		16000
Cobalt	mg/kg	---	8.9	20		9.1
Copper	mg/kg	---	19.6	2900		33
Cyanide	mg/kg	---	0.51	---		<0.52
Iron	mg/kg	---	15,900	15000		15000
Magnesium	mg/kg	---	4,820	325000		11000
Manganese	mg/kg	---	636	630		490
Nickel	mg/kg	---	18	100		19
Potassium	mg/kg	---	1,268	---		1300
Sodium	mg/kg	---	130	---		590
Thallium	mg/kg	---	0.32	2.6		<0.52
Vanadium	mg/kg	---	25.2	550		24
Zinc	mg/kg	---	95	5100		88
pH			6.25	9		8.43
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-22)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-22-B09 (0-2.2)
				CCDD	Sample Depth (feet)	(0-2.2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.51
Cadmium,TCLP	mg/L	---	---	---		0.0024
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		270
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.40
Magnesium,TCLP	mg/L	---	---	---		110
Manganese,TCLP	mg/L	---	---	---		0.14
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		2.3
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.020

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: 500-106454-1

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

1/29/2016 1:21:28 PM

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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	11
Client Sample Results	12
Definitions	48
Chain of Custody	49
Receipt Checklists	50

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Job ID: 500-106454-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106454-1

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: Due to internal standard (ISTD) area failures, a dilution was required for the following sample: 2645-22-B08 (0-2.2) (500-106454-8). The sample was initially analyzed without dilution. All internal standards were outside the QC limits. The sample was re-analyzed with similar results. No usable data was obtained from the un-diluted runs. The sample was re-analyzed at a dilution using the methanol extraction method. All internal standard areas were within limits in the diluted run. Elevated reporting limits have been provided.

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 contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-22-B08 (0-2.2) (500-106454-8) and 2645-22-B09 (0-2.2) (500-106454-9). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-320166 and analytical batch 500-320328 contained Chromium above the reporting limit (RL). Associated sample 2645-22-B01 (0-2.2) (500-106454-1), 2645-22-B02 (0-2.2) (500-106454-2), 2645-22-B03 (0-2.2) (500-106454-3), 2645-22-B04 (0-2.2) (500-106454-4), 2645-22-B05 (0-2.2) (500-106454-5), 2645-22-B06 (0-2.2) (500-106454-6), 2645-22-B07 (0-2.2) (500-106454-7), 2645-22-B08 (0-2.2) (500-106454-8), 2645-22-B09 (0-2.2) (500-106454-9) and (500-106454-F-20-C) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B01 (0-2.2)

Lab Sample ID: 500-106454-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0098	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0078	J F1	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.54	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.54	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	91	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.066		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.033		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B02 (0-2.2)

Lab Sample ID: 500-106454-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0070	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.7		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.049	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9900		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	650	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.55	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B02 (0-2.2) (Continued)

Lab Sample ID: 500-106454-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.27	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	79	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.030		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.71		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B03 (0-2.2)

Lab Sample ID: 500-106454-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0091	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.053		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.045		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.071		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.7		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	10	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	93	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B03 (0-2.2) (Continued)

Lab Sample ID: 500-106454-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.090	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.033		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.47		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B04 (0-2.2)

Lab Sample ID: 500-106454-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	420	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	86		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B05 (0-2.2)

Lab Sample ID: 500-106454-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	350	B	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B05 (0-2.2) (Continued)

Lab Sample ID: 500-106454-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	31		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	65	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	48		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.97	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	9.31		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B06 (0-2.2)

Lab Sample ID: 500-106454-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.010	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.080		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.22		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.33		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.081		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.065		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.28		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	2800	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	810	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	93	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	36		5.0	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B06 (0-2.2) (Continued)

Lab Sample ID: 500-106454-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.3		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.034		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	8.3		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.062		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.065		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.039		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B07 (0-2.2)

Lab Sample ID: 500-106454-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0097	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	480	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	910		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B08 (0-2.2)

Lab Sample ID: 500-106454-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B08 (0-2.2) (Continued)

Lab Sample ID: 500-106454-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	10		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.6	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.2		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	9000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	5.0		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		51	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	180000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	260	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.6		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.1		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	30	B	1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	540		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	76		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.57	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.043		0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.67		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-22-B09 (0-2.2)

Lab Sample ID: 500-106454-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.012	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0091	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	33		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	10	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	88	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		52	6.9	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B09 (0-2.2) (Continued)

Lab Sample ID: 500-106454-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.065		0.018	0.0096	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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-1	2645-22-B01 (0-2.2)	Solid	01/14/16 14:35	01/15/16 10:25
500-106454-2	2645-22-B02 (0-2.2)	Solid	01/14/16 14:25	01/15/16 10:25
500-106454-3	2645-22-B03 (0-2.2)	Solid	01/14/16 14:10	01/15/16 10:25
500-106454-4	2645-22-B04 (0-2.2)	Solid	01/14/16 13:55	01/15/16 10:25
500-106454-5	2645-22-B05 (0-2.2)	Solid	01/14/16 13:45	01/15/16 10:25
500-106454-6	2645-22-B06 (0-2.2)	Solid	01/14/16 13:35	01/15/16 10:25
500-106454-7	2645-22-B07 (0-2.2)	Solid	01/14/16 11:15	01/15/16 10:25
500-106454-8	2645-22-B08 (0-2.2)	Solid	01/14/16 11:05	01/15/16 10:25
500-106454-9	2645-22-B09 (0-2.2)	Solid	01/14/16 10:55	01/15/16 10:25

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B01 (0-2.2)

Lab Sample ID: 500-106454-1

Date Collected: 01/14/16 14:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Bromodichloromethane	<0.0045		0.0045	0.00075	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1
Xylenes, Total	<0.0089		0.0089	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/15/16 14:20	01/20/16 19:48	1
Dibromofluoromethane	106		75 - 120	01/15/16 14:20	01/20/16 19:48	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/15/16 14:20	01/20/16 19:48	1
Toluene-d8 (Surr)	109		75 - 122	01/15/16 14:20	01/20/16 19:48	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	☼	01/18/16 07:20	01/21/16 18:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B01 (0-2.2)

Lab Sample ID: 500-106454-1

Date Collected: 01/14/16 14:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.1

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	☼	01/18/16 07:20	01/21/16 18:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Fluoranthene	0.0098	J	0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B01 (0-2.2)

Lab Sample ID: 500-106454-1

Date Collected: 01/14/16 14:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.1

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	☼	01/18/16 07:20	01/21/16 18:13	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Pentachlorophenol	<0.79	F1	0.79	0.63	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
Pyrene	0.0078	J F1	0.039	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	01/18/16 07:20	01/21/16 18:13	1
2-Fluorophenol	105		25 - 110	01/18/16 07:20	01/21/16 18:13	1
Nitrobenzene-d5	88		25 - 115	01/18/16 07:20	01/21/16 18:13	1
Phenol-d5	93		31 - 110	01/18/16 07:20	01/21/16 18:13	1
Terphenyl-d14	102		36 - 134	01/18/16 07:20	01/21/16 18:13	1
2,4,6-Tribromophenol	52		35 - 137	01/18/16 07:20	01/21/16 18:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Arsenic	10		0.54	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Barium	85		0.54	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Beryllium	0.68		0.22	0.047	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Chromium	16	B	0.54	0.094	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Cobalt	13		0.27	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Copper	21		0.54	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Iron	21000	B	11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Lead	22		0.27	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Magnesium	12000		5.4	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Calcium	16000	B	11	3.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Manganese	590	B	0.54	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Nickel	29		0.54	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Selenium	0.52	J	0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Thallium	0.36	J	0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Vanadium	25		0.27	0.079	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Zinc	91	B	1.1	0.34	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Potassium	1400		27	4.4	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1
Sodium	190		54	7.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Barium	0.39	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 13:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 13:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B01 (0-2.2)

Lab Sample ID: 500-106454-1

Date Collected: 01/14/16 14:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 13:39	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 13:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 13:39	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:39	1
Manganese	0.066		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Potassium	1.2 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:39	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 13:39	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:39	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 12:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0095	mg/Kg	☼	01/19/16 17:45	01/20/16 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/21/16 11:30	01/21/16 16:18	1
pH	8.33		0.200	0.200	SU			01/22/16 13:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B02 (0-2.2)

Lab Sample ID: 500-106454-2

Date Collected: 01/14/16 14:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1
Xylenes, Total	<0.0095		0.0095	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/15/16 14:20	01/20/16 20:13	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/20/16 20:13	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/15/16 14:20	01/20/16 20:13	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/20/16 20:13	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	☼	01/18/16 07:20	01/21/16 12:12	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Benzo[a]anthracene	0.0070	J	0.038	0.0051	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B02 (0-2.2)

Lab Sample ID: 500-106454-2

Date Collected: 01/14/16 14:25

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.038		0.038	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Benzo[b]fluoranthene	0.012	J	0.038	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Chrysene	0.011	J	0.038	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Fluoranthene	0.018	J	0.038	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B02 (0-2.2)

Lab Sample ID: 500-106454-2

Date Collected: 01/14/16 14:25

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.77		0.77	0.36	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
Pyrene	0.013	J	0.038	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	01/18/16 07:20	01/21/16 12:12	1
2-Fluorophenol	104		25 - 110	01/18/16 07:20	01/21/16 12:12	1
Nitrobenzene-d5	87		25 - 115	01/18/16 07:20	01/21/16 12:12	1
Phenol-d5	96		31 - 110	01/18/16 07:20	01/21/16 12:12	1
Terphenyl-d14	94		36 - 134	01/18/16 07:20	01/21/16 12:12	1
2,4,6-Tribromophenol	68		35 - 137	01/18/16 07:20	01/21/16 12:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Arsenic	8.7		0.55	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Barium	92		0.55	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Beryllium	0.65		0.22	0.048	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Cadmium	0.049	J	0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Chromium	15	B	0.55	0.095	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Cobalt	12		0.28	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Copper	19		0.55	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Iron	19000	B	11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Lead	20		0.28	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Magnesium	9900		5.5	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Calcium	14000	B	11	3.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Manganese	650	B	0.55	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Nickel	26		0.55	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Selenium	0.27	J	0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Vanadium	24		0.28	0.080	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Zinc	79	B	1.1	0.35	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Potassium	1400		28	4.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1
Sodium	170		55	7.3	mg/Kg	☼	01/20/16 09:35	01/20/16 22:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Barium	0.55		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 13:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 13:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B02 (0-2.2)

Lab Sample ID: 500-106454-2

Date Collected: 01/14/16 14:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 13:44	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 13:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 13:44	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:44	1
Manganese	0.13		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Potassium	2.9		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 13:44	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:44	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 13:44	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		01/24/16 14:00	01/25/16 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:37	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		01/25/16 14:15	01/26/16 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 11:30	01/21/16 16:18	1
pH	7.71		0.200	0.200	SU			01/22/16 09:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B03 (0-2.2)

Lab Sample ID: 500-106454-3

Date Collected: 01/14/16 14:10

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Carbon tetrachloride	<0.0046		0.0046	0.00097	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Dibromochloromethane	<0.0046		0.0046	0.00052	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Methylene Chloride	<0.0046		0.0046	0.0034	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	01/15/16 14:20	01/20/16 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	01/15/16 14:20	01/20/16 20:38	1
Dibromofluoromethane	111		75 - 120	01/15/16 14:20	01/20/16 20:38	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/15/16 14:20	01/20/16 20:38	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/20/16 20:38	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	☼	01/18/16 07:20	01/21/16 12:38	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Anthracene	0.0091	J	0.038	0.0063	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B03 (0-2.2)

Lab Sample ID: 500-106454-3

Date Collected: 01/14/16 14:10

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Benzo[b]fluoranthene	0.053		0.038	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Benzo[k]fluoranthene	0.026	J	0.038	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Chrysene	0.045		0.038	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Fluoranthene	0.095		0.038	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.0098	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B03 (0-2.2)

Lab Sample ID: 500-106454-3

Date Collected: 01/14/16 14:10

Matrix: Solid

Date Received: 01/15/16 10:25

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	☼	01/18/16 07:20	01/21/16 12:38	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Phenanthrene	0.048		0.038	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
Pyrene	0.071		0.038	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/18/16 07:20	01/21/16 12:38	1
2-Fluorophenol	91		25 - 110	01/18/16 07:20	01/21/16 12:38	1
Nitrobenzene-d5	80		25 - 115	01/18/16 07:20	01/21/16 12:38	1
Phenol-d5	86		31 - 110	01/18/16 07:20	01/21/16 12:38	1
Terphenyl-d14	84		36 - 134	01/18/16 07:20	01/21/16 12:38	1
2,4,6-Tribromophenol	69		35 - 137	01/18/16 07:20	01/21/16 12:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Arsenic	9.7		0.52	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Barium	66		0.52	0.096	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Beryllium	0.67		0.21	0.045	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Cadmium	0.053	J	0.10	0.030	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Chromium	15	B	0.52	0.090	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Cobalt	12		0.26	0.059	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Copper	22		0.52	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Iron	20000	B	10	4.0	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Lead	19		0.26	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Magnesium	17000		5.2	2.1	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Calcium	25000	B	10	3.4	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Manganese	490	B	0.52	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Nickel	30		0.52	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Selenium	0.54		0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Thallium	0.28	J	0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Vanadium	21		0.26	0.076	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Zinc	93	B	1.0	0.33	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Potassium	1400		26	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1
Sodium	170		52	6.9	mg/Kg	☼	01/20/16 09:35	01/20/16 22:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Barium	0.37	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 13:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B03 (0-2.2)

Lab Sample ID: 500-106454-3

Date Collected: 01/14/16 14:10

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 13:50	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:50	1
Manganese	0.14		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Potassium	1.8 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 13:50	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:50	1
Zinc	0.090 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 13:50	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		01/24/16 14:00	01/25/16 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:41	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		01/25/16 14:15	01/26/16 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	01/21/16 11:30	01/21/16 16:19	1
pH	7.47		0.200	0.200	SU			01/22/16 09:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B04 (0-2.2)

Lab Sample ID: 500-106454-4

Date Collected: 01/14/16 13:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	01/15/16 14:20	01/21/16 11:12	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 11:12	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/15/16 14:20	01/21/16 11:12	1
Toluene-d8 (Surr)	108		75 - 122	01/15/16 14:20	01/21/16 11:12	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	☼	01/18/16 07:20	01/21/16 13:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B04 (0-2.2)

Lab Sample ID: 500-106454-4

Date Collected: 01/14/16 13:55

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B04 (0-2.2)

Lab Sample ID: 500-106454-4

Date Collected: 01/14/16 13:55

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.75		0.75	0.35	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/18/16 07:20	01/21/16 13:04	1
2-Fluorophenol	94		25 - 110	01/18/16 07:20	01/21/16 13:04	1
Nitrobenzene-d5	76		25 - 115	01/18/16 07:20	01/21/16 13:04	1
Phenol-d5	85		31 - 110	01/18/16 07:20	01/21/16 13:04	1
Terphenyl-d14	89		36 - 134	01/18/16 07:20	01/21/16 13:04	1
2,4,6-Tribromophenol	71		35 - 137	01/18/16 07:20	01/21/16 13:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Arsenic	8.3		0.53	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Barium	70		0.53	0.097	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Beryllium	0.56		0.21	0.046	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Cadmium	0.066	J	0.11	0.031	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Chromium	14	B	0.53	0.092	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Cobalt	12		0.27	0.060	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Copper	21		0.53	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Iron	18000	B	11	4.1	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Lead	13		0.27	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Magnesium	31000		5.3	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Calcium	79000	B	110	34	mg/Kg	☼	01/20/16 09:35	01/21/16 00:51	10
Manganese	420	B	0.53	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Nickel	29		0.53	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Thallium	0.30	J	0.53	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Vanadium	18		0.27	0.078	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Zinc	64	B	1.1	0.34	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Potassium	1700		27	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1
Sodium	280		53	7.0	mg/Kg	☼	01/20/16 09:35	01/20/16 22:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Barium	0.39	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 13:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 13:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 13:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B04 (0-2.2)

Lab Sample ID: 500-106454-4

Date Collected: 01/14/16 13:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 13:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 13:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 13:55	1
Magnesium	86		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:55	1
Manganese	0.32		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Potassium	1.2 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 13:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 13:55	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 13:55	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.085		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 12:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	01/21/16 11:30	01/21/16 16:19	1
pH	8.40		0.200	0.200	SU			01/22/16 13:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B05 (0-2.2)

Lab Sample ID: 500-106454-5

Date Collected: 01/14/16 13:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 11:37	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 11:37	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/15/16 14:20	01/21/16 11:37	1
Toluene-d8 (Surr)	111		75 - 122	01/15/16 14:20	01/21/16 11:37	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	☼	01/18/16 07:20	01/21/16 13:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B05 (0-2.2)

Lab Sample ID: 500-106454-5

Date Collected: 01/14/16 13:45

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.040		0.040	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B05 (0-2.2)

Lab Sample ID: 500-106454-5

Date Collected: 01/14/16 13:45

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.81		0.81	0.38	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	01/18/16 07:20	01/21/16 13:29	1
2-Fluorophenol	107		25 - 110	01/18/16 07:20	01/21/16 13:29	1
Nitrobenzene-d5	87		25 - 115	01/18/16 07:20	01/21/16 13:29	1
Phenol-d5	93		31 - 110	01/18/16 07:20	01/21/16 13:29	1
Terphenyl-d14	97		36 - 134	01/18/16 07:20	01/21/16 13:29	1
2,4,6-Tribromophenol	74		35 - 137	01/18/16 07:20	01/21/16 13:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Arsenic	7.5		0.58	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Barium	84		0.58	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Beryllium	0.64		0.23	0.050	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Cadmium	0.11	J	0.12	0.034	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Chromium	16	B	0.58	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Cobalt	13		0.29	0.065	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Copper	21		0.58	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Iron	19000	B	12	4.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Lead	13		0.29	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Magnesium	30000		5.8	2.4	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Calcium	89000	B	120	37	mg/Kg	☼	01/20/16 09:35	01/21/16 01:03	10
Manganese	350	B	0.58	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Nickel	31		0.58	0.16	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Thallium	0.68		0.58	0.29	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Vanadium	19		0.29	0.085	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Zinc	65	B	1.2	0.37	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Potassium	2100		29	4.7	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1
Sodium	1100		58	7.6	mg/Kg	☼	01/20/16 09:35	01/20/16 22:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Barium	0.46	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B05 (0-2.2)

Lab Sample ID: 500-106454-5

Date Collected: 01/14/16 13:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:00	1
Magnesium	48		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:00	1
Manganese	0.19		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Potassium	0.97 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:00	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:00	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 20:13	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		01/24/16 14:00	01/25/16 12:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:49	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		01/25/16 14:15	01/26/16 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/21/16 11:30	01/21/16 16:20	1
pH	9.31		0.200	0.200	SU			01/22/16 13:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B06 (0-2.2)

Lab Sample ID: 500-106454-6

Date Collected: 01/14/16 13:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/15/16 14:20	01/21/16 12:02	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 12:02	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/15/16 14:20	01/21/16 12:02	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/21/16 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Anthracene	0.010	J	0.041	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Benzo[a]anthracene	0.15		0.041	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B06 (0-2.2)

Lab Sample ID: 500-106454-6

Date Collected: 01/14/16 13:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.18		0.041	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Benzo[b]fluoranthene	0.31		0.041	0.0090	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Benzo[g,h,i]perylene	0.080		0.041	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Benzo[k]fluoranthene	0.11		0.041	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Chrysene	0.22		0.041	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Fluoranthene	0.33		0.041	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Indeno[1,2,3-cd]pyrene	0.081		0.041	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B06 (0-2.2)

Lab Sample ID: 500-106454-6

Date Collected: 01/14/16 13:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Phenanthrene	0.065		0.041	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
Pyrene	0.28		0.041	0.0083	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	01/18/16 07:20	01/21/16 18:38	1
2-Fluorophenol	102		25 - 110	01/18/16 07:20	01/21/16 18:38	1
Nitrobenzene-d5	82		25 - 115	01/18/16 07:20	01/21/16 18:38	1
Phenol-d5	88		31 - 110	01/18/16 07:20	01/21/16 18:38	1
Terphenyl-d14	84		36 - 134	01/18/16 07:20	01/21/16 18:38	1
2,4,6-Tribromophenol	38		35 - 137	01/18/16 07:20	01/21/16 18:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Arsenic	7.3		0.54	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Barium	130		0.54	0.099	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Beryllium	0.68		0.22	0.047	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Cadmium	0.18		0.11	0.031	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Chromium	15 B		0.54	0.093	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Cobalt	10		0.27	0.061	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Copper	15		0.54	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Iron	17000 B		11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Lead	33		0.27	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Magnesium	2000		5.4	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Calcium	2800 B		11	3.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Manganese	810 B		0.54	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Nickel	21		0.54	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Selenium	0.55		0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Thallium	0.28 J		0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Vanadium	26		0.27	0.079	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Zinc	93 B		1.1	0.34	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Potassium	1500		27	4.4	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1
Sodium	1700		54	7.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Barium	0.24 J		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B06 (0-2.2)

Lab Sample ID: 500-106454-6

Date Collected: 01/14/16 13:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:05	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Iron	4.3		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:05	1
Lead	0.034		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:05	1
Magnesium	8.3		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:05	1
Manganese	0.062		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Potassium	3.4		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:05	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:05	1
Zinc	0.032 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.065		0.0075	0.0075	mg/L		01/26/16 15:24	01/27/16 20:56	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		01/24/16 14:00	01/25/16 12:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:53	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		01/25/16 14:15	01/26/16 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.011	mg/Kg	☼	01/19/16 17:45	01/20/16 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	01/21/16 11:30	01/21/16 16:20	1
pH	8.27		0.200	0.200	SU			01/22/16 09:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B07 (0-2.2)

Lab Sample ID: 500-106454-7

Date Collected: 01/14/16 11:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	01/15/16 14:20	01/21/16 12:28	1
Dibromofluoromethane	104		75 - 120	01/15/16 14:20	01/21/16 12:28	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/15/16 14:20	01/21/16 12:28	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/21/16 12:28	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	☼	01/18/16 07:20	01/21/16 19:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Benzo[a]anthracene	0.011	J	0.039	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B07 (0-2.2)

Lab Sample ID: 500-106454-7

Date Collected: 01/14/16 11:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.1

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	0.039	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Benzo[b]fluoranthene	0.028	J	0.039	0.0084	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Chrysene	0.017	J	0.039	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B07 (0-2.2)

Lab Sample ID: 500-106454-7

Date Collected: 01/14/16 11:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.1

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	☼	01/18/16 07:20	01/21/16 19:56	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Phenanthrene	0.0097	J	0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
Pyrene	0.026	J	0.039	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/18/16 07:20	01/21/16 19:56	1
2-Fluorophenol	100		25 - 110	01/18/16 07:20	01/21/16 19:56	1
Nitrobenzene-d5	85		25 - 115	01/18/16 07:20	01/21/16 19:56	1
Phenol-d5	97		31 - 110	01/18/16 07:20	01/21/16 19:56	1
Terphenyl-d14	124		36 - 134	01/18/16 07:20	01/21/16 19:56	1
2,4,6-Tribromophenol	77		35 - 137	01/18/16 07:20	01/21/16 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Arsenic	7.6		0.55	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Barium	77		0.55	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Beryllium	0.55		0.22	0.047	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Cadmium	0.066	J	0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Chromium	12	B	0.55	0.094	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Cobalt	9.3		0.27	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Copper	22		0.55	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Iron	16000	B	11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Lead	26		0.27	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Magnesium	29000		5.5	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Calcium	82000	B	110	35	mg/Kg	☼	01/20/16 09:35	01/21/16 01:12	10
Manganese	480	B	0.55	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Nickel	20		0.55	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Thallium	0.37	J	0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Vanadium	27		0.27	0.080	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Zinc	61	B	1.1	0.35	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Potassium	1100		27	4.5	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1
Sodium	910		55	7.2	mg/Kg	☼	01/20/16 09:35	01/20/16 22:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Barium	0.49	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B07 (0-2.2)

Lab Sample ID: 500-106454-7

Date Collected: 01/14/16 11:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:10	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:10	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:10	1
Manganese	0.25		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Potassium	1.3 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:10	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:10	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:10	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 21:03	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		01/24/16 14:00	01/25/16 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 12:57	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		01/25/16 14:15	01/26/16 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0094	mg/Kg	☼	01/19/16 17:45	01/20/16 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 11:30	01/21/16 16:24	1
pH	8.83		0.200	0.200	SU			01/22/16 13:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B08 (0-2.2)

Lab Sample ID: 500-106454-8

Date Collected: 01/14/16 11:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.091	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Benzene	<0.013		0.013	0.0077	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Bromodichloromethane	<0.053		0.053	0.020	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Bromoform	<0.053		0.053	0.025	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Bromomethane	<0.11		0.11	0.042	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
2-Butanone (MEK)	<0.26		0.26	0.11	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Carbon disulfide	<0.11		0.11	0.042	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Carbon tetrachloride	<0.053		0.053	0.020	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Chlorobenzene	<0.053		0.053	0.020	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Chloroethane	<0.053		0.053	0.027	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Chloroform	<0.053		0.053	0.019	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Chloromethane	<0.053		0.053	0.017	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
cis-1,2-Dichloroethene	<0.053		0.053	0.021	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
cis-1,3-Dichloropropene	<0.053		0.053	0.022	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Dibromochloromethane	<0.053		0.053	0.026	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,1-Dichloroethane	<0.053		0.053	0.022	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,2-Dichloroethane	<0.053		0.053	0.021	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,1-Dichloroethene	<0.053		0.053	0.021	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,2-Dichloropropane	<0.053		0.053	0.023	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,3-Dichloropropene, Total	<0.053		0.053	0.022	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Ethylbenzene	<0.013		0.013	0.0096	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
2-Hexanone	<0.26		0.26	0.082	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Methylene Chloride	<0.26		0.26	0.086	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.11	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Methyl tert-butyl ether	<0.053		0.053	0.021	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Styrene	<0.053		0.053	0.020	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,1,2,2-Tetrachloroethane	<0.053		0.053	0.021	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Tetrachloroethene	<0.053		0.053	0.019	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Toluene	<0.013		0.013	0.0077	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
trans-1,2-Dichloroethene	<0.053		0.053	0.018	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
trans-1,3-Dichloropropene	<0.053		0.053	0.019	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,1,1-Trichloroethane	<0.053		0.053	0.020	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
1,1,2-Trichloroethane	<0.053		0.053	0.019	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Trichloroethene	<0.026		0.026	0.0086	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Vinyl acetate	<0.11		0.11	0.048	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Vinyl chloride	<0.026		0.026	0.014	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50
Xylenes, Total	<0.026		0.026	0.012	mg/Kg	☼	01/14/16 11:05	01/25/16 12:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 120	01/14/16 11:05	01/25/16 12:19	50
Dibromofluoromethane	102		75 - 120	01/14/16 11:05	01/25/16 12:19	50
1,2-Dichloroethane-d4 (Surr)	117		75 - 125	01/14/16 11:05	01/25/16 12:19	50
Toluene-d8 (Surr)	93		75 - 120	01/14/16 11:05	01/25/16 12:19	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B08 (0-2.2)

Lab Sample ID: 500-106454-8

Date Collected: 01/14/16 11:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B08 (0-2.2)

Lab Sample ID: 500-106454-8

Date Collected: 01/14/16 11:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 89.9

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	☼	01/18/16 07:20	01/21/16 13:55	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	01/18/16 07:20	01/21/16 13:55	1
2-Fluorophenol	113	X	25 - 110	01/18/16 07:20	01/21/16 13:55	1
Nitrobenzene-d5	87		25 - 115	01/18/16 07:20	01/21/16 13:55	1
Phenol-d5	96		31 - 110	01/18/16 07:20	01/21/16 13:55	1
Terphenyl-d14	95		36 - 134	01/18/16 07:20	01/21/16 13:55	1
2,4,6-Tribromophenol	54		35 - 137	01/18/16 07:20	01/21/16 13:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Arsenic	5.1		0.51	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Barium	10		0.51	0.093	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Beryllium	0.22		0.20	0.044	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Chromium	5.6	B	0.51	0.087	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Cobalt	4.2		0.25	0.057	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Copper	11		0.51	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Iron	9000	B	10	3.9	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Lead	5.0		0.25	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Magnesium	100000		51	21	mg/Kg	☼	01/20/16 09:35	01/21/16 01:16	10
Calcium	180000	B	100	33	mg/Kg	☼	01/20/16 09:35	01/21/16 01:16	10
Manganese	260	B	0.51	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Nickel	9.6		0.51	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Selenium	0.35	J	0.51	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Thallium	0.42	J	0.51	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Vanadium	9.1		0.25	0.074	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Zinc	30	B	1.0	0.32	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Potassium	540		25	4.1	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1
Sodium	340		51	6.7	mg/Kg	☼	01/20/16 09:35	01/20/16 22:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Barium	0.10	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B08 (0-2.2)

Lab Sample ID: 500-106454-8

Date Collected: 01/14/16 11:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:24	1
Magnesium	76		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:24	1
Manganese	0.69		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Potassium	0.57 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:24	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:24	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.043		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 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		01/24/16 14:00	01/25/16 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:02	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		01/25/16 14:15	01/26/16 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0086	mg/Kg	☼	01/19/16 17:45	01/20/16 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.44		0.44	0.14	mg/Kg	☼	01/21/16 11:30	01/21/16 16:23	1
pH	9.67		0.200	0.200	SU			01/22/16 13:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B09 (0-2.2)

Lab Sample ID: 500-106454-9

Date Collected: 01/14/16 10:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/15/16 14:20	01/21/16 13:18	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/21/16 13:18	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/15/16 14:20	01/21/16 13:18	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/21/16 13:18	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	☼	01/18/16 07:20	01/21/16 14:21	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B09 (0-2.2)

Lab Sample ID: 500-106454-9

Date Collected: 01/14/16 10:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Fluoranthene	0.012	J	0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B09 (0-2.2)

Lab Sample ID: 500-106454-9

Date Collected: 01/14/16 10:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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	☼	01/18/16 07:20	01/21/16 14:21	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
Pyrene	0.0091	J	0.039	0.0079	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	01/18/16 07:20	01/21/16 14:21	1
2-Fluorophenol	82		25 - 110	01/18/16 07:20	01/21/16 14:21	1
Nitrobenzene-d5	70		25 - 115	01/18/16 07:20	01/21/16 14:21	1
Phenol-d5	79		31 - 110	01/18/16 07:20	01/21/16 14:21	1
Terphenyl-d14	80		36 - 134	01/18/16 07:20	01/21/16 14:21	1
2,4,6-Tribromophenol	27	X	35 - 137	01/18/16 07:20	01/21/16 14:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Arsenic	6.5		0.52	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Barium	110		0.52	0.096	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Beryllium	0.56		0.21	0.045	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Cadmium	0.46		0.10	0.030	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Chromium	17	B	0.52	0.090	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Cobalt	9.1		0.26	0.059	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Copper	33		0.52	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Iron	15000	B	10	4.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Lead	24		0.26	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Magnesium	11000		5.2	2.1	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Calcium	16000	B	10	3.4	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Manganese	490	B	0.52	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Nickel	19		0.52	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Selenium	0.66		0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Silver	1.1		0.26	0.061	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Vanadium	24		0.26	0.076	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Zinc	88	B	1.0	0.33	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Potassium	1300		26	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1
Sodium	590		52	6.9	mg/Kg	☼	01/20/16 09:35	01/20/16 23:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Barium	0.51		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:29	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Client Sample ID: 2645-22-B09 (0-2.2)

Lab Sample ID: 500-106454-9

Date Collected: 01/14/16 10:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:29	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:29	1
Manganese	0.14		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Potassium	2.3 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:29	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:29	1
Zinc	0.020 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 13:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:14	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		01/25/16 14:15	01/26/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/21/16 11:30	01/21/16 16:20	1
pH	8.43		0.200	0.200	SU			01/22/16 13:40	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-1

Qualifiers

GC/MS Semi VOA

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.
X	Surrogate is outside 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.

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)

Report To (optional)
 Contact: Math Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: Math.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106454
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: (3.6)(2.1)(2.0)(0.9)

Client		Client Project #		Preservative		Parameter		Preservative Key					
Project Name		<u>1157112</u>						 500-106454 COC					
Project Location/State		<u>Bartlett, IL</u>		Lab Project #									
Sampler		<u>CTR</u>		Lab PM									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCS	23 TAL Inorganics	TCP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Comments
			Date	Time									
1		<u>2645-22-001 (0-2.2)</u>	<u>1/14/16</u>	<u>2:35</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Please HOLD SPLP analysis</u>
2		<u>2645-22-002 (0-2.2)</u>	<u>1/14/16</u>	<u>2:25</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3		<u>2645-22-003 (0-2.2)</u>	<u>1/14/16</u>	<u>2:10</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4		<u>2645-22-004 (0-2.2)</u>	<u>1/14/16</u>	<u>1:55</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5		<u>2645-22-005 (0-2.2)</u>	<u>1/14/16</u>	<u>1:45</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6		<u>2645-22-006 (0-2.2)</u>	<u>1/14/16</u>	<u>1:35</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7		<u>2645-22-007 (0-2.2)</u>	<u>1/14/16</u>	<u>11:15</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8		<u>2645-22-008 (0-2.2)</u>	<u>1/14/16</u>	<u>11:05</u>	<u>5</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9		<u>2645-22-009 (0-2.2)</u>	<u>1/14/16</u>	<u>10:55</u>	<u>5</u>		<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 _____

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>1/15/16</u>	Time <u>9:00</u>	Received By <u>Daryl Beaman</u>	Company <u>TA</u>	Date <u>1/15/16</u>	Time <u>9:15</u>
Relinquished By <u>Daryl Beaman</u>	Company <u>TA</u>	Date <u>1/15/16</u>	Time <u>10:25</u>	Received By <u>Jm/K</u>	Company <u>TAL</u>	Date <u>01/15/16</u>	Time <u>1625</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: Met IL TACO Requirements & please HOLD SPLP analysis. thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106454-1

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Near IL 59 and Stearns Road intersection from IDOT STA 116+50 to 117+00 and 47+50 to 50+00 (ISGS Site 2645-23)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700
(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, and B05 were sampled adjacent to ISGS Site No 2645-23. See Exhibits 4.8, 4C, 8A, and Table 29 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-2. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

Matt

8/1/16

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:



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

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-23)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-23-B01 (0-3.9)	2645-23-B02 (0-3.9)	2645-23-B05 (0-3.9)	
				CCDD	Sample Depth (feet)	(0-3.9)	(0-3.9)	(0-3.9)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters									
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.038	0.017	
Anthracene	mg/kg	0.25	0.4	12000		<0.037	<0.038	0.093	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	<0.038	0.23	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	<0.038	0.18	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	<0.038	0.37	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	<0.038	0.063	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	<0.038	0.16	
Chrysene	mg/kg	1.2	2.7	88		<0.037	<0.038	0.27	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.038	0.022	
Fluoranthene	mg/kg	2.7	4.1	3100		0.013	<0.038	0.75	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.038	0.066	
Phenanthrene	mg/kg	1.3	2.5	210		0.011	<0.038	0.26	
Pyrene	mg/kg	1.9	3.0	2300		0.0094	<0.038	0.75	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		12	8.9	4.0	
Barium	mg/kg	---	110	1500		33	39	43	
Cadmium	mg/kg	---	0.6	5.2		0.10	0.043	0.072	
Chromium, total	mg/kg	---	16.2	21		7.8	13	8.7	
Lead	mg/kg	---	36	107		12	14	12	
Mercury	mg/kg	---	0.06	0.1		<0.018	0.018	0.014	
Selenium	mg/kg	---	0.48	1.3		0.26	<0.56	<0.49	
Silver	mg/kg	---	0.55	4.4		<0.26	<0.28	<0.25	
Antimony	mg/kg	---	4.0	5		<1.0	<1.1	<0.99	
Beryllium	mg/kg	---	0.59	22		0.37	0.55	0.34	
Calcium	mg/kg	---	9,300	---		150000	100000	190000	
Cobalt	mg/kg	---	8.9	20		9.0	12	3.9	
Copper	mg/kg	---	19.6	2900		22	23	10	
Cyanide	mg/kg	---	0.51	---		<0.54	<0.58	0.20	
Iron	mg/kg	---	15,900	15000		16000	18000	7600	
Magnesium	mg/kg	---	4,820	325000		87000	41000	110000	
Manganese	mg/kg	---	636	630		500	410	260	
Nickel	mg/kg	---	18	100		22	29	9.2	
Potassium	mg/kg	---	1,268	---		1000	1600	820	
Sodium	mg/kg	---	130	---		230	250	690	
Thallium	mg/kg	---	0.32	2.6		<0.51	0.40	<0.49	
Vanadium	mg/kg	---	25.2	550		10	16	14	
Zinc	mg/kg	---	95	5100		83	61	43	
pH			6.25	9		8.49	8.43	8.98	
Inorganic Analytical Parameters (SPLP)									
Antimony,SPLP	mg/L	---	---	---		--	--	--	
Arsenic,SPLP	mg/L	---	---	---		--	--	--	
Barium,SPLP	mg/L	---	---	---		--	--	--	
Beryllium,SPLP	mg/L	---	---	---		--	--	--	
Cadmium,SPLP	mg/L	---	---	---		--	--	--	
Calcium,SPLP	mg/L	---	---	---		--	--	--	
Chromium,SPLP	mg/L	---	---	---		--	--	--	
Cobalt,SPLP	mg/L	---	---	---		--	--	--	
Copper,SPLP	mg/L	---	---	---		--	--	--	
Iron,SPLP	mg/L	---	---	---		--	--	--	
Lead,SPLP	mg/L	---	---	---		--	--	--	
Magnesium,SPLP	mg/L	---	---	---		--	--	--	
Manganese,SPLP	mg/L	---	---	---		0.035	0.011	0.40	
Mercury,SPLP	mg/L	---	---	---		--	--	--	
Nickel,SPLP	mg/L	---	---	---		--	--	--	

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-23)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-23-B01 (0-3.9)	2645-23-B02 (0-3.9)	2645-23-B05 (0-3.9)
				CCDD	Sample Depth (feet)	(0-3.9)	(0-3.9)	(0-3.9)
				mg/kg	Date Collected	01/14/2016	01/14/2016	01/14/2016
		Chicago	MSAs	pH 6.25-9.0				
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.35	0.26	0.44
Cadmium,TCLP	mg/L	---	---	---		0.0021	<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	---	---	---		320	260	240
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.011	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		110	140	100
Manganese,TCLP	mg/L	---	---	---		1.2	0.47	0.31
Nickel,TCLP	mg/L	---	---	---		0.010	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		0.62	0.67	2.9
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	---	---	---		0.041	0.042	0.021

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: 500-106454-2

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

1/29/2016 1:23:31 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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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	10
Client Sample Results	11
Definitions	39
Chain of Custody	40
Receipt Checklists	41

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Job ID: 500-106454-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106454-2

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

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 method blank for preparation batch 500-320166 and analytical batch 500-320328 contained Chromium above the reporting limit (RL). Associated sample 2645-23-B01 (0-3.9) (500-106454-10), 2645-23-B02 (0-3.9) (500-106454-11), 2645-23-B04 (0-3.9) (500-106454-13), 2645-23-B05 (0-3.9) (500-106454-15) and 2645-23-B06 (0-3.9) (500-106454-16) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B01 (0-3.9)

Lab Sample ID: 500-106454-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.013	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0094	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.8	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	87000		51	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	500	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	83	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.62	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.041	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B02 (0-3.9)

Lab Sample ID: 500-106454-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.043	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	410	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.56	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B02 (0-3.9) (Continued)

Lab Sample ID: 500-106454-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	16		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.47		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.67	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.042	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B03 (0-3.9)

Lab Sample ID: 500-106454-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	9.3		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.11	J	0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.4	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.4		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	7.5		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	5000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	3.5		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	85000		52	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	210	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.6		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	6.6		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	22	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	340		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.77	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B04 (0-3.9)

Lab Sample ID: 500-106454-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.040	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) (Continued)

Lab Sample ID: 500-106454-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.033	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.028	J	0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.096	J	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000		120	39	mg/Kg	10	☼	6010B	Total/NA
Manganese	570	B	0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B04 (0-3.9) Dup

Lab Sample ID: 500-106454-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0060	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.042		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.035		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.17	J	0.18	0.065	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.040		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.092		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	11		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.20	J	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) Dup (Continued)

Lab Sample ID: 500-106454-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.051	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.1		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	5700	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	4.9		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	230	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.2		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	5.4		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	19	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	630		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016		0.016	0.0084	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.68		0.53	0.17	mg/Kg	1	☼	9014	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B05 (0-3.9)

Lab Sample ID: 500-106454-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.017	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.093		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.23		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.063		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.27		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.75		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.066		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.75		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.072	J	0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.7	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.9		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	7600	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.12	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B05 (0-3.9) (Continued)

Lab Sample ID: 500-106454-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	110000		49	20	mg/Kg	10	☼	6010B	Total/NA
Calcium	190000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Manganese	260	B	0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.2		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	43	B	0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.58	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.98		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-23-B06 (0-3.9)

Lab Sample ID: 500-106454-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.045		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.038		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.060	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4700		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	6700	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	740	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	72	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	750		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B06 (0-3.9) (Continued)

Lab Sample ID: 500-106454-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.010	mg/Kg	1	✳	7471B	Total/NA
pH	8.83		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-10	2645-23-B01 (0-3.9)	Solid	01/14/16 13:20	01/15/16 10:25
500-106454-11	2645-23-B02 (0-3.9)	Solid	01/14/16 12:55	01/15/16 10:25
500-106454-12	2645-23-B03 (0-3.9)	Solid	01/14/16 12:45	01/15/16 10:25
500-106454-13	2645-23-B04 (0-3.9)	Solid	01/14/16 12:25	01/15/16 10:25
500-106454-14	2645-23-B04 (0-3.9) Dup	Solid	01/14/16 12:30	01/15/16 10:25
500-106454-15	2645-23-B05 (0-3.9)	Solid	01/14/16 12:15	01/15/16 10:25
500-106454-16	2645-23-B06 (0-3.9)	Solid	01/14/16 12:05	01/15/16 10:25



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B01 (0-3.9)

Lab Sample ID: 500-106454-10

Date Collected: 01/14/16 13:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
2-Butanone (MEK)	<0.0038		0.0038	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/15/16 14:20	01/21/16 13:43	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 13:43	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/15/16 14:20	01/21/16 13:43	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/21/16 13:43	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	☼	01/18/16 07:20	01/21/16 14:47	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B01 (0-3.9)

Lab Sample ID: 500-106454-10

Date Collected: 01/14/16 13:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Fluoranthene	0.013 J		0.037	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B01 (0-3.9)

Lab Sample ID: 500-106454-10

Date Collected: 01/14/16 13:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Phenanthrene	0.011	J	0.037	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
Pyrene	0.0094	J	0.037	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/18/16 07:20	01/21/16 14:47	1
2-Fluorophenol	105		25 - 110	01/18/16 07:20	01/21/16 14:47	1
Nitrobenzene-d5	86		25 - 115	01/18/16 07:20	01/21/16 14:47	1
Phenol-d5	96		31 - 110	01/18/16 07:20	01/21/16 14:47	1
Terphenyl-d14	93		36 - 134	01/18/16 07:20	01/21/16 14:47	1
2,4,6-Tribromophenol	60		35 - 137	01/18/16 07:20	01/21/16 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Arsenic	12		0.51	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Barium	33		0.51	0.094	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Beryllium	0.37		0.21	0.044	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Cadmium	0.10		0.10	0.030	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Chromium	7.8	B	0.51	0.088	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Cobalt	9.0		0.26	0.058	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Copper	22		0.51	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Iron	16000	B	10	4.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Lead	12		0.26	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Magnesium	87000		51	21	mg/Kg	☼	01/20/16 09:35	01/21/16 01:24	10
Calcium	150000	B	100	33	mg/Kg	☼	01/20/16 09:35	01/21/16 01:24	10
Manganese	500	B	0.51	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Nickel	22		0.51	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Selenium	0.26	J	0.51	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Vanadium	10		0.26	0.075	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Zinc	83	B	1.0	0.33	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Potassium	1000		26	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1
Sodium	230		51	6.8	mg/Kg	☼	01/20/16 09:35	01/20/16 23:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Barium	0.35	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:34	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B01 (0-3.9)

Lab Sample ID: 500-106454-10

Date Collected: 01/14/16 13:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:34	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Copper	0.011	J	0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:34	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:34	1
Manganese	1.2		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Nickel	0.010	J	0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Potassium	0.62	J	2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:34	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:34	1
Zinc	0.041	J	0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.035		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 21:17	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		01/24/16 14:00	01/25/16 13:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 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		01/25/16 14:15	01/26/16 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0095	mg/Kg	☼	01/19/16 17:45	01/20/16 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 11:30	01/21/16 16:20	1
pH	8.49		0.200	0.200	SU			01/22/16 13:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B02 (0-3.9)

Lab Sample ID: 500-106454-11

Date Collected: 01/14/16 12:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/15/16 14:20	01/21/16 14:08	1
Dibromofluoromethane	110		75 - 120	01/15/16 14:20	01/21/16 14:08	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/15/16 14:20	01/21/16 14:08	1
Toluene-d8 (Surr)	108		75 - 122	01/15/16 14:20	01/21/16 14:08	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	☼	01/18/16 07:20	01/21/16 15:12	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B02 (0-3.9)

Lab Sample ID: 500-106454-11

Date Collected: 01/14/16 12:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B02 (0-3.9)

Lab Sample ID: 500-106454-11

Date Collected: 01/14/16 12:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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	☼	01/18/16 07:20	01/21/16 15:12	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		25 - 119	01/18/16 07:20	01/21/16 15:12	1
2-Fluorophenol	107		25 - 110	01/18/16 07:20	01/21/16 15:12	1
Nitrobenzene-d5	87		25 - 115	01/18/16 07:20	01/21/16 15:12	1
Phenol-d5	94		31 - 110	01/18/16 07:20	01/21/16 15:12	1
Terphenyl-d14	93		36 - 134	01/18/16 07:20	01/21/16 15:12	1
2,4,6-Tribromophenol	57		35 - 137	01/18/16 07:20	01/21/16 15:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Arsenic	8.9		0.56	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Barium	39		0.56	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Beryllium	0.55		0.22	0.049	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Cadmium	0.043	J	0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Chromium	13	B	0.56	0.097	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Cobalt	12		0.28	0.063	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Copper	23		0.56	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Iron	18000	B	11	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Lead	14		0.28	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Magnesium	41000		5.6	2.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Calcium	100000	B	110	36	mg/Kg	☼	01/20/16 09:35	01/21/16 01:28	10
Manganese	410	B	0.56	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Nickel	29		0.56	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Thallium	0.40	J	0.56	0.28	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Vanadium	16		0.28	0.082	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Zinc	61	B	1.1	0.36	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Potassium	1600		28	4.6	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1
Sodium	250		56	7.4	mg/Kg	☼	01/20/16 09:35	01/20/16 23:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Barium	0.26	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B02 (0-3.9)

Lab Sample ID: 500-106454-11

Date Collected: 01/14/16 12:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:39	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:39	1
Magnesium	140		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:39	1
Manganese	0.47		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Potassium	0.67 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:39	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:39	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:39	1
Zinc	0.042 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011 J		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 21:23	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		01/24/16 14:00	01/25/16 13:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 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		01/25/16 14:15	01/26/16 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/21/16 11:30	01/21/16 16:21	1
pH	8.43		0.200	0.200	SU			01/22/16 13:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B03 (0-3.9)

Lab Sample ID: 500-106454-12

Date Collected: 01/14/16 12:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Dibromochloromethane	<0.0046		0.0046	0.00052	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/15/16 14:20	01/21/16 14:33	1
Dibromofluoromethane	103		75 - 120	01/15/16 14:20	01/21/16 14:33	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/15/16 14:20	01/21/16 14:33	1
Toluene-d8 (Surr)	110		75 - 122	01/15/16 14:20	01/21/16 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Benzo[a]anthracene	<0.034		0.034	0.0047	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B03 (0-3.9)

Lab Sample ID: 500-106454-12

Date Collected: 01/14/16 12:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Benzo[b]fluoranthene	<0.034		0.034	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Chrysene	<0.034		0.034	0.0095	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0090	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Methylnaphthalene	<0.034		0.034	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
4-Nitroaniline	<0.34		0.34	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B03 (0-3.9)

Lab Sample ID: 500-106454-12

Date Collected: 01/14/16 12:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Phenol	<0.17		0.17	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119				01/18/16 07:20	01/21/16 15:38	1
2-Fluorophenol	99		25 - 110				01/18/16 07:20	01/21/16 15:38	1
Nitrobenzene-d5	83		25 - 115				01/18/16 07:20	01/21/16 15:38	1
Phenol-d5	88		31 - 110				01/18/16 07:20	01/21/16 15:38	1
Terphenyl-d14	95		36 - 134				01/18/16 07:20	01/21/16 15:38	1
2,4,6-Tribromophenol	43		35 - 137				01/18/16 07:20	01/21/16 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Arsenic	2.4		0.52	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Barium	9.3		0.52	0.096	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Beryllium	0.11 J		0.21	0.045	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Cadmium	0.036 J		0.10	0.030	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Chromium	4.4 B		0.52	0.090	mg/Kg	☼	01/21/16 15:44	01/22/16 14:42	1
Cobalt	2.4		0.26	0.059	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Copper	7.5		0.52	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Iron	5000 B		10	4.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Lead	3.5		0.26	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Magnesium	85000		52	21	mg/Kg	☼	01/20/16 09:35	01/21/16 01:32	10
Calcium	150000 B		100	34	mg/Kg	☼	01/20/16 09:35	01/21/16 01:32	10
Manganese	210 B		0.52	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Nickel	5.6		0.52	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Vanadium	6.6		0.26	0.076	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Zinc	22 B		1.0	0.33	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Potassium	340		26	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1
Sodium	220		52	6.9	mg/Kg	☼	01/20/16 09:35	01/20/16 23:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Barium	0.14 J		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B03 (0-3.9)

Lab Sample ID: 500-106454-12

Date Collected: 01/14/16 12:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:44	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:44	1
Magnesium	50		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:44	1
Manganese	0.69		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Potassium	0.77 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:44	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:44	1
Zinc	0.022 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.063		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 21:30	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		01/24/16 14:00	01/25/16 13:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 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		01/25/16 14:15	01/26/16 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0081	mg/Kg	☼	01/19/16 17:45	01/20/16 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	01/21/16 11:30	01/21/16 16:21	1
pH	9.36		0.200	0.200	SU			01/22/16 13:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9)

Lab Sample ID: 500-106454-13

Date Collected: 01/14/16 12:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 14:58	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/21/16 14:58	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/15/16 14:20	01/21/16 14:58	1
Toluene-d8 (Surr)	108		75 - 122	01/15/16 14:20	01/21/16 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Benzo[a]anthracene	0.013	J	0.040	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9)

Lab Sample ID: 500-106454-13

Date Collected: 01/14/16 12:25

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.019	J	0.040	0.0079	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Benzo[b]fluoranthene	0.034	J	0.040	0.0088	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Chrysene	0.022	J	0.040	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Fluoranthene	0.033	J	0.040	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.040	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9)

Lab Sample ID: 500-106454-13

Date Collected: 01/14/16 12:25

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.82		0.82	0.39	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Phenanthrene	0.013	J	0.040	0.0057	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
Pyrene	0.028	J	0.040	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/18/16 07:20	01/21/16 16:04	1
2-Fluorophenol	104		25 - 110	01/18/16 07:20	01/21/16 16:04	1
Nitrobenzene-d5	84		25 - 115	01/18/16 07:20	01/21/16 16:04	1
Phenol-d5	91		31 - 110	01/18/16 07:20	01/21/16 16:04	1
Terphenyl-d14	89		36 - 134	01/18/16 07:20	01/21/16 16:04	1
2,4,6-Tribromophenol	61		35 - 137	01/18/16 07:20	01/21/16 16:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Arsenic	6.8		0.61	0.28	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Barium	93		0.61	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Beryllium	0.61		0.24	0.053	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Cadmium	0.096	J	0.12	0.035	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Chromium	16	B	0.61	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Cobalt	11		0.31	0.069	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Copper	18		0.61	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Iron	16000	B	12	4.7	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Lead	21		0.31	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Magnesium	16000		6.1	2.5	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Calcium	43000		120	39	mg/Kg	☼	01/20/16 09:35	01/21/16 01:36	10
Manganese	570	B	0.61	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Nickel	21		0.61	0.17	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Selenium	0.50	J	0.61	0.30	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Silver	<0.31		0.31	0.071	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Vanadium	25		0.31	0.089	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Zinc	64	B	1.2	0.39	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Potassium	1300		31	5.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1
Sodium	1400		61	8.1	mg/Kg	☼	01/20/16 09:35	01/20/16 23:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Barium	0.27	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9)

Lab Sample ID: 500-106454-13

Date Collected: 01/14/16 12:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:50	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:50	1
Manganese	0.63		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Potassium	2.0 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:50	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:50	1
Zinc	0.035 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.044		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 21:37	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		01/24/16 14:00	01/25/16 13:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010 J		0.020	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/21/16 11:30	01/21/16 16:22	1
pH	9.12		0.200	0.200	SU			01/22/16 13:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) Dup

Lab Sample ID: 500-106454-14

Date Collected: 01/14/16 12:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/15/16 14:20	01/21/16 15:23	1
Dibromofluoromethane	104		75 - 120	01/15/16 14:20	01/21/16 15:23	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/15/16 14:20	01/21/16 15:23	1
Toluene-d8 (Surr)	113		75 - 122	01/15/16 14:20	01/21/16 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Anthracene	0.0060	J	0.035	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Benzo[a]anthracene	0.042		0.035	0.0048	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) Dup

Lab Sample ID: 500-106454-14

Date Collected: 01/14/16 12:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.058		0.035	0.0068	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Benzo[b]fluoranthene	0.10		0.035	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Benzo[g,h,i]perylene	0.035		0.035	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Benzo[k]fluoranthene	0.044		0.035	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Bis(2-ethylhexyl) phthalate	0.17 J		0.18	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Chrysene	0.064		0.035	0.0096	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Fluoranthene	0.11		0.035	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Indeno[1,2,3-cd]pyrene	0.033 J		0.035	0.0092	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) Dup

Lab Sample ID: 500-106454-14

Date Collected: 01/14/16 12:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Phenanthrene	0.040		0.035	0.0049	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
Pyrene	0.092		0.035	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	01/18/16 07:20	01/21/16 16:30	1
2-Fluorophenol	102		25 - 110	01/18/16 07:20	01/21/16 16:30	1
Nitrobenzene-d5	89		25 - 115	01/18/16 07:20	01/21/16 16:30	1
Phenol-d5	94		31 - 110	01/18/16 07:20	01/21/16 16:30	1
Terphenyl-d14	101		36 - 134	01/18/16 07:20	01/21/16 16:30	1
2,4,6-Tribromophenol	65		35 - 137	01/18/16 07:20	01/21/16 16:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Arsenic	2.6		0.54	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Barium	11		0.54	0.099	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Beryllium	0.20	J	0.22	0.047	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Cadmium	0.051	J	0.11	0.031	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Chromium	10	B	0.54	0.092	mg/Kg	☼	01/21/16 15:44	01/22/16 14:47	1
Cobalt	2.1		0.27	0.061	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Copper	6.8		0.54	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Iron	5700	B	11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Lead	4.9		0.27	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Magnesium	39000		5.4	2.2	mg/Kg	☼	01/21/16 15:44	01/22/16 14:47	1
Calcium	77000		110	35	mg/Kg	☼	01/21/16 15:44	01/28/16 14:24	10
Manganese	230	B	0.54	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Nickel	5.2		0.54	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Vanadium	5.4		0.27	0.079	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Zinc	19	B	1.1	0.34	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Potassium	630		27	4.4	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1
Sodium	270		54	7.1	mg/Kg	☼	01/20/16 09:35	01/20/16 23:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Barium	0.32	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 14:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 14:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B04 (0-3.9) Dup

Lab Sample ID: 500-106454-14

Date Collected: 01/14/16 12:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 14:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 14:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 14:55	1
Magnesium	140		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:55	1
Manganese	0.54		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Potassium	1.9 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 14:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 14:55	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 14:55	1
Zinc	0.021 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 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		01/24/16 14:00	01/25/16 13:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:34	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		01/25/16 14:15	01/26/16 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0084	mg/Kg	☼	01/19/16 17:45	01/20/16 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.68		0.53	0.17	mg/Kg	☼	01/21/16 11:30	01/21/16 16:22	1
pH	8.85		0.200	0.200	SU			01/22/16 14:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B05 (0-3.9)

Lab Sample ID: 500-106454-15

Date Collected: 01/14/16 12:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/15/16 14:20	01/21/16 15:48	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 15:48	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	01/15/16 14:20	01/21/16 15:48	1
Toluene-d8 (Surr)	112		75 - 122	01/15/16 14:20	01/21/16 15:48	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	☼	01/18/16 07:20	01/21/16 20:22	1
Acenaphthylene	0.017	J	0.039	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Anthracene	0.093		0.039	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Benzo[a]anthracene	0.23		0.039	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B05 (0-3.9)

Lab Sample ID: 500-106454-15

Date Collected: 01/14/16 12:15

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.18		0.039	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Benzo[b]fluoranthene	0.37		0.039	0.0086	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Benzo[g,h,i]perylene	0.063		0.039	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Benzo[k]fluoranthene	0.16		0.039	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Chrysene	0.27		0.039	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Dibenz(a,h)anthracene	0.022 J		0.039	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Fluoranthene	0.75		0.039	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Indeno[1,2,3-cd]pyrene	0.066		0.039	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B05 (0-3.9)

Lab Sample ID: 500-106454-15

Date Collected: 01/14/16 12:15

Matrix: Solid

Date Received: 01/15/16 10:25

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	☼	01/18/16 07:20	01/21/16 20:22	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Phenanthrene	0.26		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
Pyrene	0.75		0.039	0.0079	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	01/18/16 07:20	01/21/16 20:22	1
2-Fluorophenol	88		25 - 110	01/18/16 07:20	01/21/16 20:22	1
Nitrobenzene-d5	77		25 - 115	01/18/16 07:20	01/21/16 20:22	1
Phenol-d5	82		31 - 110	01/18/16 07:20	01/21/16 20:22	1
Terphenyl-d14	124		36 - 134	01/18/16 07:20	01/21/16 20:22	1
2,4,6-Tribromophenol	42		35 - 137	01/18/16 07:20	01/21/16 20:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Arsenic	4.0		0.49	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Barium	43		0.49	0.090	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Beryllium	0.34		0.20	0.043	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Cadmium	0.072	J	0.099	0.029	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Chromium	8.7	B	0.49	0.085	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Cobalt	3.9		0.25	0.056	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Copper	10		0.49	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Iron	7600	B	9.9	3.8	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Lead	12		0.25	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Magnesium	110000		49	20	mg/Kg	☼	01/20/16 09:35	01/21/16 01:54	10
Calcium	190000	B	99	32	mg/Kg	☼	01/20/16 09:35	01/21/16 01:54	10
Manganese	260	B	0.49	0.098	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Nickel	9.2		0.49	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Vanadium	14		0.25	0.072	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Zinc	43	B	0.99	0.31	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Potassium	820		25	4.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1
Sodium	690		49	6.5	mg/Kg	☼	01/20/16 09:35	01/20/16 23:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Barium	0.44	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B05 (0-3.9)

Lab Sample ID: 500-106454-15

Date Collected: 01/14/16 12:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:00	1
Magnesium	100		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:00	1
Manganese	0.31		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Potassium	2.9		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:00	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:00	1
Zinc	0.021 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.40		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 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		01/24/16 14:00	01/25/16 13:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014 J		0.019	0.0099	mg/Kg	☼	01/19/16 17:45	01/20/16 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20 J		0.58	0.19	mg/Kg	☼	01/21/16 11:30	01/21/16 16:23	1
pH	8.98		0.200	0.200	SU			01/22/16 14:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B06 (0-3.9)

Lab Sample ID: 500-106454-16

Date Collected: 01/14/16 12:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.0046	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Benzene	<0.0059		0.0059	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Bromoform	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Carbon disulfide	<0.0059		0.0059	0.0022	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Carbon tetrachloride	<0.0059		0.0059	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Chlorobenzene	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Chloroethane	<0.0059		0.0059	0.0025	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Chloroform	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Chloromethane	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Dibromochloromethane	<0.0059		0.0059	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,1-Dichloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,2-Dichloroethane	<0.0059		0.0059	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,1-Dichloroethene	<0.0059		0.0059	0.0021	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,2-Dichloropropane	<0.0059		0.0059	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Ethylbenzene	<0.0059		0.0059	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Methylene Chloride	<0.0059		0.0059	0.0045	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Methyl tert-butyl ether	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Styrene	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,1,2,2-Tetrachloroethane	<0.0059		0.0059	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Tetrachloroethene	<0.0059		0.0059	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Toluene	<0.0059		0.0059	0.0021	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Trichloroethene	<0.0059		0.0059	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Vinyl acetate	<0.0059		0.0059	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Vinyl chloride	<0.0059		0.0059	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	01/15/16 14:20	01/21/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/15/16 14:20	01/21/16 16:13	1
Dibromofluoromethane	107		75 - 120	01/15/16 14:20	01/21/16 16:13	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/15/16 14:20	01/21/16 16:13	1
Toluene-d8 (Surr)	107		75 - 122	01/15/16 14:20	01/21/16 16:13	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	☼	01/18/16 07:20	01/21/16 16:55	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B06 (0-3.9)

Lab Sample ID: 500-106454-16

Date Collected: 01/14/16 12:05

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.023	J	0.038	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Benzo[b]fluoranthene	0.035	J	0.038	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Chrysene	0.028	J	0.038	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Fluoranthene	0.045		0.038	0.0071	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B06 (0-3.9)

Lab Sample ID: 500-106454-16

Date Collected: 01/14/16 12:05

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.77		0.77	0.36	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
Pyrene	0.038		0.038	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/18/16 07:20	01/21/16 16:55	1
2-Fluorophenol	97		25 - 110	01/18/16 07:20	01/21/16 16:55	1
Nitrobenzene-d5	101		25 - 115	01/18/16 07:20	01/21/16 16:55	1
Phenol-d5	91		31 - 110	01/18/16 07:20	01/21/16 16:55	1
Terphenyl-d14	93		36 - 134	01/18/16 07:20	01/21/16 16:55	1
2,4,6-Tribromophenol	51		35 - 137	01/18/16 07:20	01/21/16 16:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Arsenic	8.4		0.55	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Barium	110		0.55	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Beryllium	0.64		0.22	0.048	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Cadmium	0.060	J	0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Chromium	15	B	0.55	0.095	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Cobalt	11		0.28	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Copper	15		0.55	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Iron	18000	B	11	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Lead	22		0.28	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Magnesium	4700		5.5	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Calcium	6700	B	11	3.6	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Manganese	740	B	0.55	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Nickel	20		0.55	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Selenium	0.36	J	0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Vanadium	27		0.28	0.081	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Zinc	72	B	1.1	0.35	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Potassium	1200		28	4.5	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1
Sodium	750		55	7.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Barium	0.57		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

Client Sample ID: 2645-23-B06 (0-3.9)

Lab Sample ID: 500-106454-16

Date Collected: 01/14/16 12:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:05	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:05	1
Magnesium	150		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:05	1
Manganese	0.34		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Potassium	1.1 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:05	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:05	1
Zinc	0.051 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.48		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 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		01/24/16 14:00	01/25/16 13:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 11:30	01/21/16 16:23	1
pH	8.83		0.200	0.200	SU			01/22/16 14:13	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-2

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
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.

General Chemistry

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.

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106454
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Preservative Key	
Project Location/State		Lab PM		Date		Time		Matrix		1. HCL, Cool to 4°	
Sampler				Date		Time		Matrix		2. H2SO4, Cool to 4°	
Lab ID	MS/MSD	Sample ID								3. HNO3, Cool to 4°	
10		2645-23-B01 (0-3.9)	11/14/16	12:20	S	✓	✓	✓	✓	✓	HOLD SPLP Analysis
11		2645-23-B02 (0-3.9)	11/14/16	12:55	S	✓	✓	✓	✓	✓	
12		2645-23-B03 (0-3.9)	11/14/16	12:45	S	✓	✓	✓	✓	✓	
13		2645-23-B04 (0-3.9)	11/14/16	12:25	S	✓	✓	✓	✓	✓	
14		2645-23-B04 (0-3.9) Dup	11/14/16	12:30	S	✓	✓	✓	✓	✓	
15		2645-23-B05 (0-3.9)	11/14/16	12:15	S	✓	✓	✓	✓	✓	
16		2645-23-B06 (0-3.9)	11/14/16	12:05	S	✓	✓	✓	✓	✓	

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>11/15/16</u>	Time <u>9:00</u>	Received By <u>David Becker TA</u>	Company <u>TA</u>	Date <u>1/15/16</u>	Time <u>9:15</u>
Relinquished By <u>David Becker TA</u>	Company <u>TA</u>	Date <u>1/15/16</u>	Time <u>10:25</u>	Received By <u>[Signature]</u>	Company <u>TAL</u>	Date <u>01/15/16</u>	Time <u>10:25</u>

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
met IL TACO requirements & please HOLD SPLP analysis. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106454-2

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 117+75 to 119+50, 120+20 to 120+35 (ISGS Site 2645-24)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012ALatitude: 41.97500 Longitude: -88.20700Uncontaminated 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 2645-24. See Exhibits 8, 8B, and Table 31 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-3. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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))

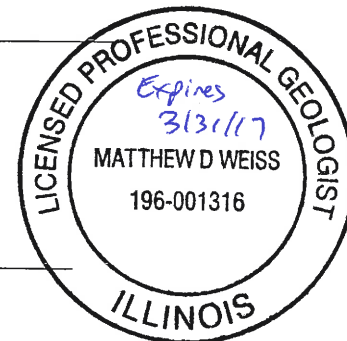
Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss

Printed Name:

Matt WeissLicensed Professional Engineer or
Licensed Professional Geologist Signature:8/1/16

Date:



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

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-24)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-24-B01 (0-3.6)	2645-24-B02 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0079	<0.041
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0099	<0.041
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.017	<0.041
Chrysene	mg/kg	1.2	2.7	88		0.013	<0.041
Fluoranthene	mg/kg	2.7	4.1	3100		0.023	<0.041
Phenanthrene	mg/kg	1.3	2.5	210		0.0079	<0.041
Pyrene	mg/kg	1.9	3.0	2300		0.016	<0.041
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.4	8.8
Barium	mg/kg	---	110	1500		130	140
Cadmium	mg/kg	---	0.6	5.2		0.13	<0.11
Chromium, total	mg/kg	---	16.2	21		15	18
Lead	mg/kg	---	36	107		39	18
Mercury	mg/kg	---	0.06	0.1		0.034	<0.019
Selenium	mg/kg	---	0.48	1.3		0.68	0.66
Silver	mg/kg	---	0.55	4.4		<0.27	<0.27
Antimony	mg/kg	---	4.0	5		<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.68	0.68
Calcium	mg/kg	---	9,300	---		6400	1800
Cobalt	mg/kg	---	8.9	20		10	23
Copper	mg/kg	---	19.6	2900		16	13
Cyanide	mg/kg	---	0.51	---		0.47	<0.56
Iron	mg/kg	---	15,900	15000		17000	22000
Magnesium	mg/kg	---	4,820	325000		4300	2800
Manganese	mg/kg	---	636	630		680	1100
Nickel	mg/kg	---	18	100		21	22
Potassium	mg/kg	---	1,268	---		1200	830
Sodium	mg/kg	---	130	---		590	1400
Thallium	mg/kg	---	0.32	2.6		<0.53	<0.55
Vanadium	mg/kg	---	25.2	550		26	32
Zinc	mg/kg	---	95	5100		80	49
pH			6.25	9		8.19	7.87
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-24)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-24-B01 (0-3.6)	2645-24-B02 (0-3.6)
				CCDD	Sample Depth (feet)	(0-3.6)	(0-3.6)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.40	0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		120	36
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		54	13
Manganese,TCLP	mg/L	---	---	---		0.14	0.082
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		<2.5	<2.5
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.027	0.024

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: 500-106454-3
Client Project/Site: IDOT - Bartlett - WO 012

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
1/29/2016 1:24:19 PM

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

LINKS

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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.

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	6
Client Sample Results	7
Definitions	19
Chain of Custody	20
Receipt Checklists	21

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Job ID: 500-106454-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106454-3

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

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 method blank for preparation batch 500-320166 and analytical batch 500-320328 contained Chromium above the reporting limit (RL). Associated sample 2645-24-B01 (0-3.6) (500-106454-17), 2645-24-B02 (0-3.6) (500-106454-18), 2645-24-B03 (0-3.6) (500-106454-19) and (500-106454-F-20-C) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B01 (0-3.6)

Lab Sample ID: 500-106454-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0079	J	0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0099	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.017	J	0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0079	J	0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	6400	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	680	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	80	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	54		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.47	J	0.64	0.21	mg/Kg	1	☼	9014	Total/NA
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-24-B02 (0-3.6)

Lab Sample ID: 500-106454-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	140		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	23		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	1800	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.55	0.27	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B02 (0-3.6) (Continued)

Lab Sample ID: 500-106454-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	32		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	36	F1	5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	13	F1	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.082		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	7.87		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-24-B03 (0-3.6)

Lab Sample ID: 500-106454-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.037		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.093		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.054		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.082		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.078		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.31		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.8	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	9100	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	88000		57	23	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	320	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	42	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	730		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.54	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	9.21		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-17	2645-24-B01 (0-3.6)	Solid	01/14/16 11:55	01/15/16 10:25
500-106454-18	2645-24-B02 (0-3.6)	Solid	01/14/16 11:45	01/15/16 10:25
500-106454-19	2645-24-B03 (0-3.6)	Solid	01/14/16 11:30	01/15/16 10:25

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B01 (0-3.6)

Lab Sample ID: 500-106454-17

Date Collected: 01/14/16 11:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/15/16 14:20	01/21/16 16:38	1
Dibromofluoromethane	109		75 - 120	01/15/16 14:20	01/21/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/15/16 14:20	01/21/16 16:38	1
Toluene-d8 (Surr)	106		75 - 122	01/15/16 14:20	01/21/16 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Benzo[a]anthracene	0.0079	J	0.042	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B01 (0-3.6)

Lab Sample ID: 500-106454-17

Date Collected: 01/14/16 11:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0099	J	0.042	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Benzo[b]fluoranthene	0.017	J	0.042	0.0091	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Chrysene	0.013	J	0.042	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Fluoranthene	0.023	J	0.042	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B01 (0-3.6)

Lab Sample ID: 500-106454-17

Date Collected: 01/14/16 11:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Phenanthrene	0.0079	J	0.042	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
Pyrene	0.016	J	0.042	0.0083	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	01/18/16 07:20	01/21/16 17:21	1
2-Fluorophenol	102		25 - 110	01/18/16 07:20	01/21/16 17:21	1
Nitrobenzene-d5	73		25 - 115	01/18/16 07:20	01/21/16 17:21	1
Phenol-d5	95		31 - 110	01/18/16 07:20	01/21/16 17:21	1
Terphenyl-d14	88		36 - 134	01/18/16 07:20	01/21/16 17:21	1
2,4,6-Tribromophenol	55		35 - 137	01/18/16 07:20	01/21/16 17:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Arsenic	7.4		0.53	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Barium	130		0.53	0.097	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Beryllium	0.68		0.21	0.046	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Cadmium	0.13		0.11	0.031	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Chromium	15	B	0.53	0.091	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Cobalt	10		0.27	0.060	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Copper	16		0.53	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Iron	17000	B	11	4.1	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Lead	39		0.27	0.13	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Magnesium	4300		5.3	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Calcium	6400	B	11	3.4	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Manganese	680	B	0.53	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Nickel	21		0.53	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Selenium	0.68		0.53	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Vanadium	26		0.27	0.078	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Zinc	80	B	1.1	0.34	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Potassium	1200		27	4.3	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1
Sodium	590		53	7.0	mg/Kg	☼	01/20/16 09:35	01/20/16 23:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Barium	0.40	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B01 (0-3.6)

Lab Sample ID: 500-106454-17

Date Collected: 01/14/16 11:55

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:10	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:10	1
Magnesium	54		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:10	1
Manganese	0.14		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Potassium	<2.5		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:10	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:10	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:10	1
Zinc	0.027 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:10	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		01/24/16 14:00	01/25/16 13:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0098	mg/Kg	☼	01/19/16 17:45	01/20/16 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.47 J		0.64	0.21	mg/Kg	☼	01/21/16 14:30	01/21/16 18:27	1
pH	8.19		0.200	0.200	SU			01/22/16 14:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B02 (0-3.6)

Lab Sample ID: 500-106454-18

Date Collected: 01/14/16 11:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 17:03	1
Dibromofluoromethane	104		75 - 120	01/15/16 14:20	01/21/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	01/15/16 14:20	01/21/16 17:03	1
Toluene-d8 (Surr)	107		75 - 122	01/15/16 14:20	01/21/16 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B02 (0-3.6)

Lab Sample ID: 500-106454-18

Date Collected: 01/14/16 11:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.0

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	☼	01/18/16 07:20	01/21/16 17:47	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B02 (0-3.6)

Lab Sample ID: 500-106454-18

Date Collected: 01/14/16 11:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/18/16 07:20	01/21/16 17:47	1
2-Fluorophenol	104		25 - 110	01/18/16 07:20	01/21/16 17:47	1
Nitrobenzene-d5	91		25 - 115	01/18/16 07:20	01/21/16 17:47	1
Phenol-d5	92		31 - 110	01/18/16 07:20	01/21/16 17:47	1
Terphenyl-d14	97		36 - 134	01/18/16 07:20	01/21/16 17:47	1
2,4,6-Tribromophenol	59		35 - 137	01/18/16 07:20	01/21/16 17:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Arsenic	8.8		0.55	0.25	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Barium	140		0.55	0.10	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Beryllium	0.68		0.22	0.048	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Chromium	18 B		0.55	0.094	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Cobalt	23		0.27	0.062	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Copper	13		0.55	0.12	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Iron	22000 B		11	4.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Lead	18		0.27	0.14	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Magnesium	2800		5.5	2.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Calcium	1800 B		11	3.5	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Manganese	1100 B		0.55	0.11	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Nickel	22		0.55	0.15	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Selenium	0.66		0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Vanadium	32		0.27	0.080	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Zinc	49 B		1.1	0.35	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Potassium	830		27	4.5	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1
Sodium	1400		55	7.2	mg/Kg	☼	01/20/16 09:35	01/20/16 23:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Barium	0.34 J		0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B02 (0-3.6)

Lab Sample ID: 500-106454-18

Date Collected: 01/14/16 11:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36	F1	5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:26	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 00:45	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:26	1
Magnesium	13	F1	2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:26	1
Manganese	0.082		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Potassium	<2.5		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:26	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:26	1
Zinc	0.024	J	0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:26	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		01/24/16 14:00	01/25/16 13:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 13:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:28	1
pH	7.87		0.200	0.200	SU			01/22/16 14:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B03 (0-3.6)

Lab Sample ID: 500-106454-19

Date Collected: 01/14/16 11:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	01/15/16 14:20	01/21/16 17:28	1
Dibromofluoromethane	109		75 - 120	01/15/16 14:20	01/21/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/15/16 14:20	01/21/16 17:28	1
Toluene-d8 (Surr)	106		75 - 122	01/15/16 14:20	01/21/16 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Benzo[a]anthracene	0.037		0.037	0.0050	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B03 (0-3.6)

Lab Sample ID: 500-106454-19

Date Collected: 01/14/16 11:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.050		0.037	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Benzo[b]fluoranthene	0.093		0.037	0.0080	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Benzo[k]fluoranthene	0.029	J	0.037	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Chrysene	0.054		0.037	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Fluoranthene	0.082		0.037	0.0069	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.037	0.0096	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B03 (0-3.6)

Lab Sample ID: 500-106454-19

Date Collected: 01/14/16 11:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.8

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	☼	01/18/16 07:20	01/21/16 19:04	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Phenanthrene	0.024	J	0.037	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
Pyrene	0.078		0.037	0.0074	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	01/18/16 07:20	01/21/16 19:04	1
2-Fluorophenol	101		25 - 110	01/18/16 07:20	01/21/16 19:04	1
Nitrobenzene-d5	87		25 - 115	01/18/16 07:20	01/21/16 19:04	1
Phenol-d5	90		31 - 110	01/18/16 07:20	01/21/16 19:04	1
Terphenyl-d14	107		36 - 134	01/18/16 07:20	01/21/16 19:04	1
2,4,6-Tribromophenol	55		35 - 137	01/18/16 07:20	01/21/16 19:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Arsenic	4.5		0.57	0.26	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Barium	42		0.57	0.10	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Beryllium	0.31		0.23	0.049	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Cadmium	0.13		0.11	0.033	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Chromium	7.8	B	0.57	0.098	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Cobalt	4.8		0.28	0.064	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Copper	17		0.57	0.12	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Iron	9100	B	11	4.4	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Lead	27		0.28	0.14	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Magnesium	88000		57	23	mg/Kg	☼	01/20/16 09:35	01/21/16 02:11	10
Calcium	150000	B	110	37	mg/Kg	☼	01/20/16 09:35	01/21/16 02:11	10
Manganese	320	B	0.57	0.11	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Nickel	11		0.57	0.15	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Vanadium	13		0.28	0.083	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Zinc	42	B	1.1	0.36	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Potassium	730		28	4.6	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1
Sodium	530		57	7.5	mg/Kg	☼	01/20/16 09:35	01/21/16 00:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Barium	0.45	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

Client Sample ID: 2645-24-B03 (0-3.6)

Lab Sample ID: 500-106454-19

Date Collected: 01/14/16 11:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:47	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 01:12	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:47	1
Magnesium	110		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:47	1
Manganese	0.35		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Potassium	0.54 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:47	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:47	1
Zinc	0.044 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.51		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 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		01/24/16 14:00	01/25/16 14:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 14:18	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		01/25/16 14:15	01/26/16 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015 J		0.019	0.0099	mg/Kg	☼	01/19/16 17:45	01/20/16 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	01/21/16 14:30	01/21/16 18:28	1
pH	9.21		0.200	0.200	SU			01/22/16 14:31	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-3

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
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.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

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.

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: 500-106454-3

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 122+50 to 124+29 (ISGS Site 2645-25)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-25. See Exhibits 9, 9A, and Table 33 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-4. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

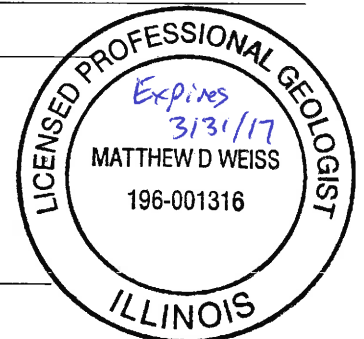
Printed Name:

Matt Weiss

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/1/16

Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-25)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-25-B01 (0-1.9)	2645-25-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.019	0.027
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.024	0.031
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.044	0.045
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	0.015
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.019	0.023
Chrysene	mg/kg	1.2	2.7	88		0.023	0.034
Fluoranthene	mg/kg	2.7	4.1	3100		0.045	0.055
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	0.014
Phenanthrene	mg/kg	1.3	2.5	210		0.015	0.034
Pyrene	mg/kg	1.9	3.0	2300		0.040	0.052
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.4	5.6
Barium	mg/kg	---	110	1500		67	74
Cadmium	mg/kg	---	0.6	5.2		0.088	0.14
Chromium, total	mg/kg	---	16.2	21		13	27
Lead	mg/kg	---	36	107		23	19
Mercury	mg/kg	---	0.06	0.1		0.029	0.026
Selenium	mg/kg	---	0.48	1.3		0.29	0.32
Silver	mg/kg	---	0.55	4.4		<0.25	<0.30
Antimony	mg/kg	---	4.0	5		<0.99	0.52
Beryllium	mg/kg	---	0.59	22		0.55	0.41
Calcium	mg/kg	---	9,300	---		62000	70000
Cobalt	mg/kg	---	8.9	20		9.8	9.3
Copper	mg/kg	---	19.6	2900		18	14
Cyanide	mg/kg	---	0.51	---		<0.55	<0.56
Iron	mg/kg	---	15,900	15000		17000	14000
Magnesium	mg/kg	---	4,820	325000		24000	27000
Manganese	mg/kg	---	636	630		470	390
Nickel	mg/kg	---	18	100		23	19
Potassium	mg/kg	---	1,268	---		1200	910
Sodium	mg/kg	---	130	---		650	650
Thallium	mg/kg	---	0.32	2.6		<0.49	<0.59
Vanadium	mg/kg	---	25.2	550		20	22
Zinc	mg/kg	---	95	5100		77	56
pH			6.25	9		8.17	8.89
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	0.55
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-25)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-25-B01 (0-1.9)	2645-25-B02 (0-1.9)
				CCDD	Sample Depth (feet)	(0-1.9)	(0-1.9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.47	0.53
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		300	340
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		120	93
Manganese,TCLP	mg/L	---	---	---		0.069	0.53
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.1	1.7
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.020	0.035

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: 500-106454-4
Client Project/Site: IDOT - Bartlett - WO 012

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
1/29/2016 1:25:17 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.

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	6
Client Sample Results	7
Definitions	15
Chain of Custody	16
Receipt Checklists	17

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Job ID: 500-106454-4

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106454-4**

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

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 and/or one base/neutral surrogate outside acceptance limits: 2645-25-B01 (0-1.9) (500-106454-20) and 2645-25-B02 (0-1.9) (500-106454-21). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-320170 and analytical batch 500-320323 contained Calcium and Magnesium above the reporting limit (RL). Associated samples 2645-25-B02 (0-1.9) (500-106454-21) were not re-extracted and/or re-analyzed because results were greater than 10X the values found in the method blank.

Method(s) 6010B: The method blank for preparation batch 500-320166 and analytical batch 500-320328 contained Chromium above the reporting limit (RL). Associated sample 2645-25-B01 (0-1.9) (500-106454-20) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B01 (0-1.9)

Lab Sample ID: 500-106454-20

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	0.044		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.045		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.040		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.088	J	0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	23	F2	0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	F2	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Manganese	470	B	0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J F1	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	77	B F1	0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	650		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.069		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-25-B02 (0-1.9)

Lab Sample ID: 500-106454-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.027	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	0.045		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.034	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.52	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.59	0.27	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B02 (0-1.9) (Continued)

Lab Sample ID: 500-106454-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	74		0.59	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.41		0.24	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.14		0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	27	B	0.59	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.3		0.30	0.067	mg/Kg	1		☼	6010B	Total/NA
Copper	14		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	14000	B	12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	19		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	27000	B	5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	70000	B	120	38	mg/Kg	10		☼	6010B	Total/NA
Manganese	390	B	0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.32	J	0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	22		0.30	0.086	mg/Kg	1		☼	6010B	Total/NA
Zinc	56	B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	910		30	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	650		59	7.8	mg/Kg	1		☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.026		0.020	0.011	mg/Kg	1		☼	7471B	Total/NA
pH	8.89		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-20	2645-25-B01 (0-1.9)	Solid	01/14/16 10:45	01/15/16 10:25
500-106454-21	2645-25-B02 (0-1.9)	Solid	01/14/16 10:35	01/15/16 10:25

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B01 (0-1.9)

Lab Sample ID: 500-106454-20

Date Collected: 01/14/16 10:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Bromoform	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Chloromethane	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Vinyl chloride	<0.0041		0.0041	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 17:53	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/21/16 17:53	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/15/16 14:20	01/21/16 17:53	1
Toluene-d8 (Surr)	108		75 - 122	01/15/16 14:20	01/21/16 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B01 (0-1.9)

Lab Sample ID: 500-106454-20

Date Collected: 01/14/16 10:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.0

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	☼	01/18/16 07:20	01/21/16 19:30	1
Benzo[b]fluoranthene	0.044		0.039	0.0085	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Benzo[k]fluoranthene	0.019	J	0.039	0.012	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Chrysene	0.023	J	0.039	0.011	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Fluoranthene	0.045		0.039	0.0073	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B01 (0-1.9)

Lab Sample ID: 500-106454-20

Date Collected: 01/14/16 10:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.0

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	☼	01/18/16 07:20	01/21/16 19:30	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Phenanthrene	0.015	J	0.039	0.0055	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
Pyrene	0.040		0.039	0.0078	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/18/16 07:20	01/21/16 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	01/18/16 07:20	01/21/16 19:30	1
2-Fluorophenol	92		25 - 110	01/18/16 07:20	01/21/16 19:30	1
Nitrobenzene-d5	90		25 - 115	01/18/16 07:20	01/21/16 19:30	1
Phenol-d5	88		31 - 110	01/18/16 07:20	01/21/16 19:30	1
Terphenyl-d14	107		36 - 134	01/18/16 07:20	01/21/16 19:30	1
2,4,6-Tribromophenol	34	X	35 - 137	01/18/16 07:20	01/21/16 19:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99	F1	0.99	0.20	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Arsenic	8.4		0.49	0.23	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Barium	67		0.49	0.090	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Beryllium	0.55		0.20	0.043	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Cadmium	0.088	J	0.099	0.029	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Chromium	13	B	0.49	0.085	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Cobalt	9.8		0.25	0.056	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Copper	18		0.49	0.11	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Iron	17000	B	9.9	3.8	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Lead	23	F2	0.25	0.12	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Magnesium	24000	F2	4.9	2.0	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Calcium	62000	B	99	32	mg/Kg	☼	01/20/16 09:35	01/21/16 02:15	10
Manganese	470	B	0.49	0.098	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Nickel	23		0.49	0.13	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Selenium	0.29	J F1	0.49	0.24	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Vanadium	20		0.25	0.072	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Zinc	77	B F1	0.99	0.31	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Potassium	1200	F1	25	4.0	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1
Sodium	650		49	6.5	mg/Kg	☼	01/20/16 09:35	01/21/16 00:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Barium	0.47	J	0.50	0.050	mg/L		01/24/16 14:00	01/25/16 15:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/25/16 15:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/25/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B01 (0-1.9)

Lab Sample ID: 500-106454-20

Date Collected: 01/14/16 10:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		01/24/16 14:00	01/25/16 15:52	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 01:19	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/25/16 15:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/25/16 15:52	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:52	1
Manganese	0.069		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Potassium	2.1 J		2.5	0.50	mg/L		01/24/16 14:00	01/25/16 15:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/25/16 15:52	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/25/16 15:52	1
Zinc	0.020 J		0.50	0.020	mg/L		01/24/16 14:00	01/25/16 15:52	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		01/24/16 14:00	01/25/16 14:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 14:22	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		01/25/16 14:15	01/26/16 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/21/16 14:30	01/21/16 18:29	1
pH	8.17		0.200	0.200	SU			01/22/16 14:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B02 (0-1.9)

Lab Sample ID: 500-106454-21

Date Collected: 01/14/16 10:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/15/16 14:20	01/21/16 18:18	1
Dibromofluoromethane	106		75 - 120	01/15/16 14:20	01/21/16 18:18	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	01/15/16 14:20	01/21/16 18:18	1
Toluene-d8 (Surr)	106		75 - 122	01/15/16 14:20	01/21/16 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	0.0070	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Benzo[a]anthracene	0.027	J	0.039	0.0052	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B02 (0-1.9)

Lab Sample ID: 500-106454-21

Date Collected: 01/14/16 10:35

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.031	J	0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Benzo[b]fluoranthene	0.045		0.039	0.0084	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Benzo[k]fluoranthene	0.023	J	0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Chrysene	0.034	J	0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Fluoranthene	0.055		0.039	0.0072	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B02 (0-1.9)

Lab Sample ID: 500-106454-21

Date Collected: 01/14/16 10:35

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.78		0.78	0.37	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Phenanthrene	0.034	J	0.039	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
Pyrene	0.052		0.039	0.0077	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	01/18/16 06:58	01/22/16 17:20	1
2-Fluorophenol	137	X	25 - 110	01/18/16 06:58	01/22/16 17:20	1
Nitrobenzene-d5	83		25 - 115	01/18/16 06:58	01/22/16 17:20	1
Phenol-d5	71		31 - 110	01/18/16 06:58	01/22/16 17:20	1
Terphenyl-d14	85		36 - 134	01/18/16 06:58	01/22/16 17:20	1
2,4,6-Tribromophenol	41		35 - 137	01/18/16 06:58	01/22/16 17:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.25	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Arsenic	5.6		0.59	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Barium	74		0.59	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Beryllium	0.41		0.24	0.051	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Cadmium	0.14		0.12	0.034	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Chromium	27	B	0.59	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Cobalt	9.3		0.30	0.067	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Copper	14		0.59	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Iron	14000	B	12	4.5	mg/Kg	☼	01/22/16 13:57	01/23/16 17:43	1
Lead	19		0.30	0.15	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Magnesium	27000	B	5.9	2.4	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Calcium	70000	B	120	38	mg/Kg	☼	01/20/16 10:14	01/20/16 19:04	10
Manganese	390	B	0.59	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Nickel	19		0.59	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Selenium	0.32	J	0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Vanadium	22		0.30	0.086	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Zinc	56	B	1.2	0.37	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Potassium	910		30	4.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1
Sodium	650		59	7.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Barium	0.53		0.50	0.050	mg/L		01/24/16 14:00	01/26/16 06:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 06:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 06:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Client Sample ID: 2645-25-B02 (0-1.9)

Lab Sample ID: 500-106454-21

Date Collected: 01/14/16 10:35

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 06:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 06:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 06:51	1
Magnesium	93		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 06:51	1
Manganese	0.53		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Potassium	1.7 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 06:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 06:51	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:51	1
Zinc	0.035 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 06:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.55		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 14:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 14:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.011	mg/Kg	☼	01/19/16 17:45	01/20/16 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:29	1
pH	8.89		0.200	0.200	SU			01/22/16 14:40	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-4

Qualifiers

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.

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.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
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.

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: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106454
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		VOCs	SVOCs	23 TAL Inorganics	TELP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Comments		
Project Name		Lab Project #		Parameter										
Project Location/State		Lab Project #		Parameter		# of Containers	Matrix	VOCs	SVOCs	23 TAL Inorganics	TELP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Comments
Sampler		Lab PM		Parameter										
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	VOCs	SVOCs	23 TAL Inorganics	TELP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Comments
		Date	Time											
20		2645-25-001 (0-1.9)		11/14/16	10:45	5		✓	✓	✓	✓	✓		HOLD SPLP analysis
21		2645-25-002 (0-1.9)		11/14/16	10:35	3		✓	✓	✓	✓	✓		

- 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>1/15/16</u> Time: <u>9:00</u>	Received By: <u>David Baden</u> Company: <u>TA</u> Date: <u>1-15-16</u> Time: <u>9:15</u>	Lab Courier: <input checked="" type="checkbox"/>
Relinquished By: <u>David Baden</u> Company: <u>TA</u> Date: <u>1/15/16</u> Time: <u>10:25</u>	Received By: <u>SMK</u> Company: <u>TAL</u> Date: <u>01/15/16</u> Time: <u>10:25</u>	Shipped: <input type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: <input type="checkbox"/>

- 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: met IL TACO requirements & HOLD SPLP analysis, thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106454-4

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Near IL 59 and Stearns Road intersection from IDOT STA 115+00 to 116+75 and 50+00 to 52+40 (ISGS Site 2645-27)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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, B03, B04, B05 and B06 were sampled adjacent to ISGS Site No 2645-27. See Exhibits 4.8, 4C, 8B and Table 35 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-5 and J106454-5. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

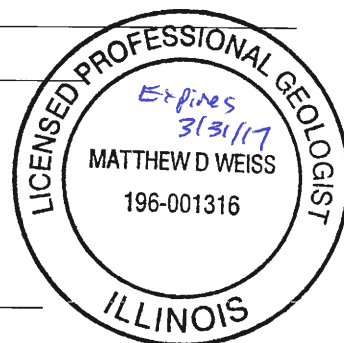
Matt Weiss
 Printed Name:

Matt Weiss

8/1/16

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:



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

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B01 (0-4.4)	2645-27-B02 (0-4.4)	2645-27-B03 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)	(0-4.4)	(0-4.4)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
Volatile Organic Analytical Parameters								
Xylenes (total)	mg/kg	---	---	5.6		<0.0099	<0.012	0.0057
Acetone	mg/kg	---	---	25		<0.020	<0.024	0.023
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	0.0076	<0.039
Anthracene	mg/kg	0.25	0.4	12000		<0.040	0.028	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.046	0.27	0.0075
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.052	0.35	<0.039
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.09	0.64	0.011
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.024	0.19	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.035	0.25	<0.039
Chrysene	mg/kg	1.2	2.7	88		0.067	0.35	<0.039
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	0.051	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		0.11	0.54	0.014
Fluorene	mg/kg	0.1	0.18	560		<0.040	0.0071	<0.039
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.028	0.18	<0.039
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.039	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		0.034	0.16	<0.039
Pyrene	mg/kg	1.9	3.0	2300		0.091	0.7	0.012
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		6.9	4.7	8.4
Barium	mg/kg	---	110	1500		110	38	81
Cadmium	mg/kg	---	0.6	5.2		0.17	0.19	0.11
Chromium, total	mg/kg	---	16.2	21		16	8.4	14
Lead	mg/kg	---	36	107		21	17	15
Mercury	mg/kg	---	0.06	0.1		0.036	0.016	0.036
Selenium	mg/kg	---	0.48	1.3		0.66	<0.53	0.29
Silver	mg/kg	---	0.55	4.4		<0.27	<0.26	<0.26
Antimony	mg/kg	---	4.0	5		<1.1	0.5	<1.0
Beryllium	mg/kg	---	0.59	22		0.74	0.34	0.7
Calcium	mg/kg	---	9,300	---		6200	190000	43000
Cobalt	mg/kg	---	8.9	20		9.9	4.8	11
Copper	mg/kg	---	19.6	2900		14	12	19
Cyanide	mg/kg	---	0.51	---		<0.59	<0.57	<0.53
Iron	mg/kg	---	15,900	15000		17000	10000	21000
Magnesium	mg/kg	---	4,820	325000		4400	41000	21000
Manganese	mg/kg	---	636	630		650	380	380
Nickel	mg/kg	---	18	100		20	12	26
Potassium	mg/kg	---	1,268	---		1300	890	1200
Sodium	mg/kg	---	130	---		890	290	520
Thallium	mg/kg	---	0.32	2.6		<0.54	<0.53	<0.52
Vanadium	mg/kg	---	25.2	550		29	17	25
Zinc	mg/kg	---	95	5100		81	51	78
pH			6.25	9		8.02	8.09	8.11
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B01 (0-4.4)	2645-27-B02 (0-4.4)	2645-27-B03 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)	(0-4.4)	(0-4.4)
				mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016	01/13/2016
		Chicago	MSAs					
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	0.019
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	0.27	0.32
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.26	0.47	0.9
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	0.008
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	---	---	---		68	390	180
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.01	0.029
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	0.021
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		1.6	0.21	0.25
Magnesium,TCLP	mg/L	---	---	---		22	98	78
Manganese,TCLP	mg/L	---	---	---		0.038	4.1	7.3
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.036
Potassium,TCLP	mg/L	---	---	---		2	4.7	4.2
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	---	---	---		0.026	0.11	0.27

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B04 (0-4.4)	2645-27-B05 (0-4.4) Dup	2645-27-B05 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)	(0-4.4) Dup	(0-4.4)
				mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/14/2016	01/14/2016
		Chicago	MSAs					
Volatile Organic Analytical Parameters								
Xylenes (total)	mg/kg	---	---	5.6		<0.0079	<0.0078	<0.0076
Acetone	mg/kg	---	---	25		<0.016	<0.016	<0.015
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.039	<0.038
Anthracene	mg/kg	0.25	0.4	12000		<0.037	<0.039	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.014	<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.012	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.02	<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	<0.039	<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	<0.039	<0.038
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.015	<0.038
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.039	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.031	<0.038
Fluorene	mg/kg	0.1	0.18	560		<0.037	<0.039	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.039	<0.038
Naphthalene	mg/kg	0.04	0.2	1.8		0.0058	<0.039	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.0089	<0.038
Pyrene	mg/kg	1.9	3.0	2300		0.0079	0.021	<0.038
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		9.5	9.9	9.7
Barium	mg/kg	---	110	1500		48	44	81
Cadmium	mg/kg	---	0.6	5.2		0.26	0.26	0.12
Chromium, total	mg/kg	---	16.2	21		13	12	17
Lead	mg/kg	---	36	107		24	14	17
Mercury	mg/kg	---	0.06	0.1		0.018	0.019	0.026
Selenium	mg/kg	---	0.48	1.3		<0.54	<0.58	0.3
Silver	mg/kg	---	0.55	4.4		<0.27	<0.29	<0.29
Antimony	mg/kg	---	4.0	5		<1.1	0.67	0.34
Beryllium	mg/kg	---	0.59	22		0.46	0.43	0.65
Calcium	mg/kg	---	9,300	---		88000	96000	23000
Cobalt	mg/kg	---	8.9	20		9.6	10	11
Copper	mg/kg	---	19.6	2900		22	22	22
Cyanide	mg/kg	---	0.51	---		<0.54	<0.58	<0.58
Iron	mg/kg	---	15,900	15000		17000	16000	18000
Magnesium	mg/kg	---	4,820	325000		29000	43000	16000
Manganese	mg/kg	---	636	630		380	450	400
Nickel	mg/kg	---	18	100		23	25	28
Potassium	mg/kg	---	1,268	---		1400	1500	1400
Sodium	mg/kg	---	130	---		390	480	680
Thallium	mg/kg	---	0.32	2.6		<0.54	0.63	0.34
Vanadium	mg/kg	---	25.2	550		17	17	28
Zinc	mg/kg	---	95	5100		78	72	74
pH			6.25	9		8.69	8.15	8.1
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B04 (0-4.4)	2645-27-B05 (0-4.4) Dup	2645-27-B05 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)	(0-4.4) Dup	(0-4.4)
				mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/14/2016	01/14/2016
		Chicago	MSAs					
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.058	0.12	0.13
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.49	0.5	0.62
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		350	440	280
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.012	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		100	130	130
Manganese,TCLP	mg/L	---	---	---		0.58	0.27	1.6
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2	5.9	1.4
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	---	---	---		0.054	<0.50	0.12

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B06 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016
Volatile Organic Analytical Parameters						
Xylenes (total)	mg/kg	---	---	5.6		<0.010
Acetone	mg/kg	---	---	25		<0.020
Semivolatile Organic Analytical Parameters						
Acenaphthylene	mg/kg	0.03	0.07	85		<0.044
Anthracene	mg/kg	0.25	0.4	12000		<0.044
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.074
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.091
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.13
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.051
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.053
Chrysene	mg/kg	1.2	2.7	88		0.1
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.015
Fluoranthene	mg/kg	2.7	4.1	3100		0.14
Fluorene	mg/kg	0.1	0.18	560		<0.044
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.05
Naphthalene	mg/kg	0.04	0.2	1.8		<0.044
Phenanthrene	mg/kg	1.3	2.5	210		0.084
Pyrene	mg/kg	1.9	3.0	2300		0.12
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.3
Barium	mg/kg	---	110	1500		110
Cadmium	mg/kg	---	0.6	5.2		0.2
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		36
Mercury	mg/kg	---	0.06	0.1		0.035
Selenium	mg/kg	---	0.48	1.3		0.53
Silver	mg/kg	---	0.55	4.4		<0.32
Antimony	mg/kg	---	4.0	5		0.29
Beryllium	mg/kg	---	0.59	22		0.66
Calcium	mg/kg	---	9,300	---		3500
Cobalt	mg/kg	---	8.9	20		11
Copper	mg/kg	---	19.6	2900		16
Cyanide	mg/kg	---	0.51	---		<0.63
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		2600
Manganese	mg/kg	---	636	630		670
Nickel	mg/kg	---	18	100		21
Potassium	mg/kg	---	1,268	---		1200
Sodium	mg/kg	---	130	---		450
Thallium	mg/kg	---	0.32	2.6		<0.64
Vanadium	mg/kg	---	25.2	550		28
Zinc	mg/kg	---	95	5100		78
pH			6.25	9		7.76
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-27)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-27-B06 (0-4.4)
				CCDD	Sample Depth (feet)	(0-4.4)
				mg/kg pH 6.25-9.0	Date Collected	01/14/2016
		Chicago	MSAs			
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.27
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		64
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		1.1
Magnesium,TCLP	mg/L	---	---	---		23
Manganese,TCLP	mg/L	---	---	---		0.049
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		1.6
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.035

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: 500-106314-5

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:09:16 PM

Jodie Bracken, Project Management Assistant II

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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

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	8
Client Sample Results	9
Definitions	25
Certification Summary	26
Chain of Custody	27
Receipt Checklists	28

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Job ID: 500-106314-5

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106314-5

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-319947: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have 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 contained one acid and/or one base surrogate outside acceptance limits: 2645-27-B02 (0-4.4) (500-106314-19), 2645-27-B04 (0-4.4) (500-106314-21), (500-106314-F-1-B MS), (500-106314-F-1-C MSD), (500-106314-F-21-F MS) and (500-106314-F-21-G MS). 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 method blank for preparation batch 500-319601 and analytical batch 500-319728 contained Chromium and Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B01 (0-4.4)

Lab Sample ID: 500-106314-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.046		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.052		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.067		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.091		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4400	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	6200	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	650	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	890		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	68		5.0	0.50	mg/L	1		6010B	TCLP
Iron	1.6		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.026	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-27-B02 (0-4.4)

Lab Sample ID: 500-106314-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0076	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.028	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.27		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.35		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.64		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.19		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.25		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.35		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.051		0.039	0.0075	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B02 (0-4.4) (Continued)

Lab Sample ID: 500-106314-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.54		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0071	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.70		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.4	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000	B	5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	190000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380	B	0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	890		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-27-B03 (0-4.4)

Lab Sample ID: 500-106314-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.016	0.0031	mg/Kg	1	☼	8260B	Total/NA
Xylenes, Total	0.0057	J	0.0081	0.0015	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0075	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4	F1	0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	81	F1 F2	0.52	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70	F2	0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B F1 F2	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.058	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B03 (0-4.4) (Continued)

Lab Sample ID: 500-106314-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19	B F1	0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1	0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B F2	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000	B F2	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	380	B F2	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J F1	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25	F1 F2	0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	78	F1	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	520	F1 F2	52	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.90		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0080		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-27-B04 (0-4.4)

Lab Sample ID: 500-106314-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0058	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0079	J F1	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.5		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	390	B	54	7.1	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B04 (0-4.4) (Continued)

Lab Sample ID: 500-106314-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.058		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0096	mg/Kg	1	*	7471B	Total/NA
pH	8.69		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-18	2645-27-B01 (0-4.4)	Solid	01/13/16 14:35	01/14/16 11:00
500-106314-19	2645-27-B02 (0-4.4)	Solid	01/13/16 14:45	01/14/16 11:00
500-106314-20	2645-27-B03 (0-4.4)	Solid	01/13/16 15:00	01/14/16 11:00
500-106314-21	2645-27-B04 (0-4.4)	Solid	01/13/16 15:10	01/14/16 11:00

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B01 (0-4.4)

Lab Sample ID: 500-106314-18

Date Collected: 01/13/16 14:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Methylene Chloride	<0.0050		0.0050	0.0037	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/14/16 14:15	01/19/16 14:24	1
Dibromofluoromethane	104		75 - 120	01/14/16 14:15	01/19/16 14:24	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/14/16 14:15	01/19/16 14:24	1
Toluene-d8 (Surr)	110		75 - 122	01/14/16 14:15	01/19/16 14:24	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	☼	01/15/16 07:06	01/20/16 16:54	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Benzo[a]anthracene	0.046		0.040	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B01 (0-4.4)

Lab Sample ID: 500-106314-18

Date Collected: 01/13/16 14:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.052		0.040	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Benzo[b]fluoranthene	0.090		0.040	0.0086	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Benzo[g,h,i]perylene	0.024	J	0.040	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Benzo[k]fluoranthene	0.035	J	0.040	0.012	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Chrysene	0.067		0.040	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Fluoranthene	0.11		0.040	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Indeno[1,2,3-cd]pyrene	0.028	J	0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B01 (0-4.4)

Lab Sample ID: 500-106314-18

Date Collected: 01/13/16 14:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 79.3

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	☼	01/15/16 07:06	01/20/16 16:54	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Phenanthrene	0.034	J	0.040	0.0056	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
Pyrene	0.091		0.040	0.0079	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/15/16 07:06	01/20/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	01/15/16 07:06	01/20/16 16:54	1
2-Fluorophenol	92		25 - 110	01/15/16 07:06	01/20/16 16:54	1
Nitrobenzene-d5	99		25 - 115	01/15/16 07:06	01/20/16 16:54	1
Phenol-d5	55		31 - 110	01/15/16 07:06	01/20/16 16:54	1
Terphenyl-d14	118		36 - 134	01/15/16 07:06	01/20/16 16:54	1
2,4,6-Tribromophenol	72		35 - 137	01/15/16 07:06	01/20/16 16:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Arsenic	6.9		0.54	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Barium	110		0.54	0.098	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Beryllium	0.74		0.21	0.046	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Cadmium	0.17		0.11	0.031	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Chromium	16	B	0.54	0.092	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Cobalt	9.9		0.27	0.061	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Copper	14	B	0.54	0.12	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Iron	17000	B	11	4.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Lead	21		0.27	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Magnesium	4400	B	5.4	2.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Calcium	6200	B	11	3.5	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Manganese	650	B	0.54	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Nickel	20		0.54	0.15	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Selenium	0.66		0.54	0.27	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Vanadium	29		0.27	0.078	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Zinc	81		1.1	0.34	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Potassium	1300		27	4.4	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1
Sodium	890		54	7.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Barium	0.26	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 21:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 21:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 21:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B01 (0-4.4)

Lab Sample ID: 500-106314-18

Date Collected: 01/13/16 14:35

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 21:21	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Iron	1.6		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 21:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 21:21	1
Magnesium	22		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:21	1
Manganese	0.038		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Potassium	2.0 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 21:21	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:21	1
Zinc	0.026 J B		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 21:21	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		01/18/16 15:00	01/20/16 19:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:51	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		01/18/16 13:30	01/19/16 12:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.021	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	01/20/16 12:15	01/20/16 16:00	1
pH	8.02		0.200	0.200	SU			01/19/16 15:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B02 (0-4.4)

Lab Sample ID: 500-106314-19

Date Collected: 01/13/16 14:45

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.0047	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Benzene	<0.0060		0.0060	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Bromoform	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Bromomethane	<0.0060		0.0060	0.0022	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
2-Butanone (MEK)	<0.0060		0.0060	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Carbon disulfide	<0.0060		0.0060	0.0022	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Carbon tetrachloride	<0.0060		0.0060	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Chlorobenzene	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Chloroethane	<0.0060		0.0060	0.0025	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Chloroform	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Chloromethane	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Dibromochloromethane	<0.0060		0.0060	0.00069	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,1-Dichloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,1-Dichloroethene	<0.0060		0.0060	0.0022	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,2-Dichloropropane	<0.0060		0.0060	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Ethylbenzene	<0.0060		0.0060	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Methylene Chloride	<0.0060		0.0060	0.0045	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Methyl tert-butyl ether	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Styrene	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Tetrachloroethene	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Toluene	<0.0060		0.0060	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Trichloroethene	<0.0060		0.0060	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Vinyl acetate	<0.0060		0.0060	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Vinyl chloride	<0.0060		0.0060	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1
Xylenes, Total	<0.012		0.012	0.0022	mg/Kg	☼	01/14/16 14:15	01/19/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/14/16 14:15	01/19/16 14:49	1
Dibromofluoromethane	103		75 - 120	01/14/16 14:15	01/19/16 14:49	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/14/16 14:15	01/19/16 14:49	1
Toluene-d8 (Surr)	109		75 - 122	01/14/16 14:15	01/19/16 14:49	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	☼	01/15/16 07:06	01/20/16 19:58	1
Acenaphthylene	0.0076	J	0.039	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Anthracene	0.028	J	0.039	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Benzo[a]anthracene	0.27		0.039	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B02 (0-4.4)

Lab Sample ID: 500-106314-19

Date Collected: 01/13/16 14:45

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.35		0.039	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Benzo[b]fluoranthene	0.64		0.039	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Benzo[g,h,i]perylene	0.19		0.039	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Benzo[k]fluoranthene	0.25		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Chrysene	0.35		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Dibenz(a,h)anthracene	0.051		0.039	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Fluoranthene	0.54		0.039	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Fluorene	0.0071 J		0.039	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Indeno[1,2,3-cd]pyrene	0.18		0.039	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B02 (0-4.4)

Lab Sample ID: 500-106314-19

Date Collected: 01/13/16 14:45

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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	☼	01/15/16 07:06	01/20/16 19:58	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Phenanthrene	0.16		0.039	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
Pyrene	0.70		0.039	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	01/15/16 07:06	01/20/16 19:58	1
2-Fluorophenol	88		25 - 110	01/15/16 07:06	01/20/16 19:58	1
Nitrobenzene-d5	101		25 - 115	01/15/16 07:06	01/20/16 19:58	1
Phenol-d5	61		31 - 110	01/15/16 07:06	01/20/16 19:58	1
Terphenyl-d14	187	X	36 - 134	01/15/16 07:06	01/20/16 19:58	1
2,4,6-Tribromophenol	87		35 - 137	01/15/16 07:06	01/20/16 19:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Arsenic	4.7		0.53	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Barium	38		0.53	0.097	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Beryllium	0.34		0.21	0.046	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Cadmium	0.19		0.11	0.031	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Chromium	8.4	B	0.53	0.091	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Cobalt	4.8		0.26	0.060	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Copper	12	B	0.53	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Iron	10000	B	11	4.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Lead	17		0.26	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Magnesium	41000	B	5.3	2.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Calcium	190000	B	110	34	mg/Kg	☼	01/15/16 08:54	01/15/16 23:52	10
Manganese	380	B	0.53	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Nickel	12		0.53	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Vanadium	17		0.26	0.077	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Zinc	51		1.1	0.34	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Potassium	890		26	4.3	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1
Sodium	290		53	7.0	mg/Kg	☼	01/15/16 08:54	01/15/16 21:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Barium	0.47	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 21:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B02 (0-4.4)

Lab Sample ID: 500-106314-19

Date Collected: 01/13/16 14:45

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Cobalt	0.010	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Iron	0.21	J	0.40	0.20	mg/L		01/18/16 15:00	01/19/16 21:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 21:28	1
Magnesium	98		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:28	1
Manganese	4.1		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Potassium	4.7		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 21:28	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:28	1
Zinc	0.11	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.27		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 17:41	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		01/18/16 15:00	01/20/16 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:54	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		01/18/16 13:30	01/19/16 12:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0094	mg/Kg	☼	01/15/16 15:15	01/18/16 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/20/16 12:15	01/20/16 16:00	1
pH	8.09		0.200	0.200	SU			01/19/16 15:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B03 (0-4.4)

Lab Sample ID: 500-106314-20

Date Collected: 01/13/16 15:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.016	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1
Xylenes, Total	0.0057	J	0.0081	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	01/14/16 14:15	01/19/16 15:14	1
Dibromofluoromethane	106		75 - 120	01/14/16 14:15	01/19/16 15:14	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/14/16 14:15	01/19/16 15:14	1
Toluene-d8 (Surr)	112		75 - 122	01/14/16 14:15	01/19/16 15:14	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	☼	01/15/16 07:06	01/20/16 17:17	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Benzo[a]anthracene	0.0075	J	0.039	0.0052	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B03 (0-4.4)

Lab Sample ID: 500-106314-20

Date Collected: 01/13/16 15:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.2

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	☼	01/15/16 07:06	01/20/16 17:17	1
Benzo[b]fluoranthene	0.011	J	0.039	0.0084	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Fluoranthene	0.014	J	0.039	0.0072	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B03 (0-4.4)

Lab Sample ID: 500-106314-20

Date Collected: 01/13/16 15:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.2

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	☼	01/15/16 07:06	01/20/16 17:17	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
Pyrene	0.012	J	0.039	0.0077	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/15/16 07:06	01/20/16 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 119	01/15/16 07:06	01/20/16 17:17	1
2-Fluorophenol	94		25 - 110	01/15/16 07:06	01/20/16 17:17	1
Nitrobenzene-d5	105		25 - 115	01/15/16 07:06	01/20/16 17:17	1
Phenol-d5	64		31 - 110	01/15/16 07:06	01/20/16 17:17	1
Terphenyl-d14	119		36 - 134	01/15/16 07:06	01/20/16 17:17	1
2,4,6-Tribromophenol	72		35 - 137	01/15/16 07:06	01/20/16 17:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1	1.0	0.21	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Arsenic	8.4	F1	0.52	0.24	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Barium	81	F1 F2	0.52	0.094	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Beryllium	0.70	F2	0.21	0.045	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Cadmium	0.11		0.10	0.030	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Chromium	14	B F1 F2	0.52	0.089	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Cobalt	11		0.26	0.058	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Copper	19	B F1	0.52	0.11	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Iron	21000	B	10	4.0	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Lead	15	F1	0.26	0.13	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Magnesium	21000	B F2	5.2	2.1	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Calcium	43000	B F2	100	33	mg/Kg	☼	01/15/16 08:54	01/15/16 23:56	10
Manganese	380	B F2	0.52	0.10	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Nickel	26		0.52	0.14	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Selenium	0.29	J F1	0.52	0.26	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Silver	<0.26	F1	0.26	0.060	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Vanadium	25	F1 F2	0.26	0.075	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Zinc	78	F1	1.0	0.33	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Potassium	1200	F1	26	4.2	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1
Sodium	520	F1 F2	52	6.8	mg/Kg	☼	01/15/16 08:54	01/15/16 21:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Barium	0.90		0.50	0.050	mg/L		01/18/16 15:00	01/19/16 21:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 21:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 21:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B03 (0-4.4)

Lab Sample ID: 500-106314-20

Date Collected: 01/13/16 15:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 21:34	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Cobalt	0.029		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Copper	0.021	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Iron	0.25	J	0.40	0.20	mg/L		01/18/16 15:00	01/19/16 21:34	1
Lead	0.0080		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 21:34	1
Magnesium	78		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:34	1
Manganese	7.3		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Nickel	0.036		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Potassium	4.2		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 21:34	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:34	1
Zinc	0.27	J B	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 21:34	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.019		0.0075	0.0075	mg/L		01/22/16 13:24	01/23/16 18:03	1
Manganese	0.32		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 18:03	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		01/18/16 15:00	01/20/16 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 19:57	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		01/18/16 13:30	01/19/16 12:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.017	0.0092	mg/Kg	☼	01/15/16 15:15	01/18/16 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	01/20/16 12:15	01/20/16 16:01	1
pH	8.11		0.200	0.200	SU			01/19/16 16:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B04 (0-4.4)

Lab Sample ID: 500-106314-21

Date Collected: 01/13/16 15:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/14/16 14:15	01/19/16 15:39	1
Dibromofluoromethane	107		75 - 120	01/14/16 14:15	01/19/16 15:39	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/14/16 14:15	01/19/16 15:39	1
Toluene-d8 (Surr)	109		75 - 122	01/14/16 14:15	01/19/16 15:39	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	☼	01/18/16 17:00	01/20/16 04:29	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B04 (0-4.4)

Lab Sample ID: 500-106314-21

Date Collected: 01/13/16 15:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.068	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.071	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4,6-Dinitro-2-methylphenol	<0.75	F1	0.75	0.30	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4-Dinitrophenol	<0.75	F1	0.75	0.66	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Hexachlorocyclopentadiene	<0.75	F1	0.75	0.21	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Naphthalene	0.0058	J	0.037	0.0057	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B04 (0-4.4)

Lab Sample ID: 500-106314-21

Date Collected: 01/13/16 15:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.8

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	☼	01/18/16 17:00	01/20/16 04:29	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Pentachlorophenol	<0.75	F1	0.75	0.60	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
Pyrene	0.0079	J F1	0.037	0.0074	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 17:00	01/20/16 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	01/18/16 17:00	01/20/16 04:29	1
2-Fluorophenol	77		25 - 110	01/18/16 17:00	01/20/16 04:29	1
Nitrobenzene-d5	67		25 - 115	01/18/16 17:00	01/20/16 04:29	1
Phenol-d5	74		31 - 110	01/18/16 17:00	01/20/16 04:29	1
Terphenyl-d14	138	X	36 - 134	01/18/16 17:00	01/20/16 04:29	1
2,4,6-Tribromophenol	59		35 - 137	01/18/16 17:00	01/20/16 04:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Arsenic	9.5		0.54	0.25	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Barium	48		0.54	0.098	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Beryllium	0.46		0.21	0.046	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Cadmium	0.26		0.11	0.031	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Chromium	13	B	0.54	0.092	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Cobalt	9.6		0.27	0.060	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Copper	22		0.54	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Iron	17000	B	11	4.1	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Lead	24		0.27	0.13	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Magnesium	29000		5.4	2.2	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Calcium	88000		110	34	mg/Kg	☼	01/15/16 08:35	01/16/16 19:54	10
Manganese	380		0.54	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Nickel	23		0.54	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Selenium	<0.54		0.54	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Vanadium	17		0.27	0.078	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Zinc	78		1.1	0.34	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Potassium	1400		27	4.4	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1
Sodium	390	B	54	7.1	mg/Kg	☼	01/15/16 08:35	01/15/16 17:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Barium	0.49	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 21:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 21:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 21:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Client Sample ID: 2645-27-B04 (0-4.4)

Lab Sample ID: 500-106314-21

Date Collected: 01/13/16 15:10

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 21:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Copper	0.012	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 21:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 21:57	1
Magnesium	100		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:57	1
Manganese	0.58		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Potassium	2.0	J F1	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 21:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 21:57	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 21:57	1
Zinc	0.054	J	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.058		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 18:10	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		01/18/16 15:00	01/20/16 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:08	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		01/18/16 13:30	01/19/16 11:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0096	mg/Kg	☼	01/15/16 15:15	01/18/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/20/16 12:15	01/20/16 16:01	1
pH	8.69		0.200	0.200	SU			01/19/16 16:03	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

Qualifiers

GC/MS 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.
*	LCS or LCSD is outside acceptance limits.

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-5

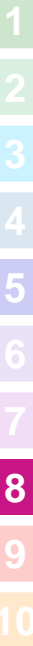
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: Math Weiss
Company: Terracon
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: Math.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106314
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key		
Project Name		Project Location/State		Lab Project #		Lab PM		Sampler				
		<u>11157112</u>				<u>VOCS</u>		<u>SVOCS</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		
<u>Burlington, IL</u>		<u>CTK</u>										
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments	
<u>18</u>		<u>2645-27-001 (0-4.9)</u>	<u>1/13/16</u>	<u>2:35</u>	<u>5</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>HOLD SPLP analysis</u>
<u>19</u>		<u>2645-27-002 (0-4.9)</u>	<u>1/13/16</u>	<u>2:45</u>	<u>5</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>20</u>		<u>2645-27-003 (0-4.9)</u>	<u>1/13/16</u>	<u>3:00</u>	<u>5</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>		
<u>21</u>		<u>2645-27-004 (0-4.9)</u>	<u>1/13/16</u>	<u>3:10</u>	<u>5</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

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>And Kelly</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>	Received By <u>Math</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>
Relinquished By <u>Math</u>	Company <u>Terracon</u>	Date <u>1/14/16</u>	Time <u>7:00</u>	Received By <u>David Becken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>9:10</u>
Relinquished By <u>David Becken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>11:00</u>	Received By <u>Sherrill</u>	Company <u>TA-CHT</u>	Date <u>1/14/16</u>	Time <u>11:00</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: Met IL TACO Requirements & Please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-5

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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: 500-106454-5

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

1/29/2016 1:26:09 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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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	7
Client Sample Results	8
Definitions	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Job ID: 500-106454-5

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106454-5**

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

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 and/or one base/neutral surrogate outside acceptance limits: 2645-27-B05-(0-4.4) (500-106454-22). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-320170 and analytical batch 500-320323 contained Calcium and Magnesium above the reporting limit (RL). Associated samples 2645-27-B05-(0-4.4) (500-106454-22), 2645-27-B05 (0-4.4) Dup (500-106454-23) and 2645-27-B06 (0-4.4) (500-106454-24) were not re-extracted and/or re-analyzed because results were greater than 10X the values found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05-(0-4.4)

Lab Sample ID: 500-106454-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0089	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.67	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.58	0.10	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	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	43000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	96000	B	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
Thallium	0.63		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.9		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.15		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-27-B05 (0-4.4) Dup

Lab Sample ID: 500-106454-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		12	3.8	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05 (0-4.4) Dup (Continued)

Lab Sample ID: 500-106454-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	400		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	680		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-27-B06 (0-4.4)

Lab Sample ID: 500-106454-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.074		0.044	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.091		0.044	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.044	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.044	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.053		0.044	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.044	0.0085	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.044	0.0081	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.044	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.084		0.044	0.0061	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.044	0.0087	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.64	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.64	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.26	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.64	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.32	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.64	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	3500		13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.64	0.13	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.64	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.32	0.094	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.3	0.41	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		32	5.2	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B06 (0-4.4) (Continued)

Lab Sample ID: 500-106454-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	450		64	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	64		5.0	0.50	mg/L	1		6010B	TCLP
Iron	1.1		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.022	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.76		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-22	2645-27-B05-(0-4.4)	Solid	01/14/16 08:45	01/15/16 10:25
500-106454-23	2645-27-B05 (0-4.4) Dup	Solid	01/14/16 08:50	01/15/16 10:25
500-106454-24	2645-27-B06 (0-4.4)	Solid	01/14/16 09:05	01/15/16 10:25

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05-(0-4.4)

Lab Sample ID: 500-106454-22

Date Collected: 01/14/16 08:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/15/16 14:20	01/21/16 18:43	1
Dibromofluoromethane	103		75 - 120	01/15/16 14:20	01/21/16 18:43	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/15/16 14:20	01/21/16 18:43	1
Toluene-d8 (Surr)	107		75 - 122	01/15/16 14:20	01/21/16 18:43	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	☼	01/18/16 06:58	01/22/16 14:45	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Benzo[a]anthracene	0.014	J	0.039	0.0052	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05-(0-4.4)

Lab Sample ID: 500-106454-22

Date Collected: 01/14/16 08:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.012	J	0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Benzo[b]fluoranthene	0.020	J	0.039	0.0084	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Fluoranthene	0.031	J	0.039	0.0072	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05-(0-4.4)

Lab Sample ID: 500-106454-22

Date Collected: 01/14/16 08:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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	☼	01/18/16 06:58	01/22/16 14:45	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Phenanthrene	0.0089	J	0.039	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
Pyrene	0.021	J	0.039	0.0077	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	01/18/16 06:58	01/22/16 14:45	1
2-Fluorophenol	113	X	25 - 110	01/18/16 06:58	01/22/16 14:45	1
Nitrobenzene-d5	91		25 - 115	01/18/16 06:58	01/22/16 14:45	1
Phenol-d5	100		31 - 110	01/18/16 06:58	01/22/16 14:45	1
Terphenyl-d14	90		36 - 134	01/18/16 06:58	01/22/16 14:45	1
2,4,6-Tribromophenol	59		35 - 137	01/18/16 06:58	01/22/16 14:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.2	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Arsenic	9.9		0.58	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Barium	44		0.58	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Beryllium	0.43		0.23	0.050	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Cadmium	0.26		0.12	0.034	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Chromium	12		0.58	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Cobalt	10		0.29	0.065	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Copper	22		0.58	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Iron	16000		11	4.3	mg/Kg	☼	01/22/16 13:57	01/23/16 17:48	1
Lead	14		0.29	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Magnesium	43000		5.8	2.4	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Calcium	96000	B	120	37	mg/Kg	☼	01/20/16 10:14	01/20/16 19:08	10
Manganese	450		0.58	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Nickel	25		0.58	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Thallium	0.63		0.58	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Vanadium	17		0.29	0.085	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Zinc	72		1.2	0.37	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Potassium	1500		29	4.7	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1
Sodium	480		58	7.7	mg/Kg	☼	01/20/16 10:14	01/20/16 17:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Barium	0.50		0.50	0.050	mg/L		01/24/16 14:00	01/26/16 06:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 06:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 06:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05-(0-4.4)

Lab Sample ID: 500-106454-22

Date Collected: 01/14/16 08:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 06:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 06:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 06:58	1
Magnesium	130		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 06:58	1
Manganese	0.27		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Potassium	5.9		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 06:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 06:58	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 06:58	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 06:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 14:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 14:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0093	mg/Kg	☼	01/19/16 17:45	01/20/16 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:30	1
pH	8.15		0.200	0.200	SU			01/22/16 14:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05 (0-4.4) Dup

Lab Sample ID: 500-106454-23

Date Collected: 01/14/16 08:50

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 19:08	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 19:08	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/15/16 14:20	01/21/16 19:08	1
Toluene-d8 (Surr)	107		75 - 122	01/15/16 14:20	01/21/16 19:08	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	☼	01/18/16 06:58	01/22/16 15:11	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05 (0-4.4) Dup

Lab Sample ID: 500-106454-23

Date Collected: 01/14/16 08:50

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05 (0-4.4) Dup

Lab Sample ID: 500-106454-23

Date Collected: 01/14/16 08:50

Matrix: Solid

Date Received: 01/15/16 10:25

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	☼	01/18/16 06:58	01/22/16 15:11	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/18/16 06:58	01/22/16 15:11	1
2-Fluorophenol	101		25 - 110	01/18/16 06:58	01/22/16 15:11	1
Nitrobenzene-d5	83		25 - 115	01/18/16 06:58	01/22/16 15:11	1
Phenol-d5	62		31 - 110	01/18/16 06:58	01/22/16 15:11	1
Terphenyl-d14	85		36 - 134	01/18/16 06:58	01/22/16 15:11	1
2,4,6-Tribromophenol	63		35 - 137	01/18/16 06:58	01/22/16 15:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Arsenic	9.7		0.59	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Barium	81		0.59	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Beryllium	0.65		0.24	0.051	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Cadmium	0.12		0.12	0.034	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Chromium	17		0.59	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Cobalt	11		0.29	0.067	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Copper	22		0.59	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Iron	18000		11	4.1	mg/Kg	☼	01/22/16 13:57	01/23/16 17:53	1
Lead	17		0.29	0.15	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Magnesium	16000		5.9	2.4	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Calcium	23000		12	3.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Manganese	400		0.59	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Nickel	28		0.59	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Selenium	0.30	J	0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Thallium	0.34	J	0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Vanadium	28		0.29	0.086	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Zinc	74		1.2	0.37	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Potassium	1400		29	4.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1
Sodium	680		59	7.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Barium	0.62		0.50	0.050	mg/L		01/24/16 14:00	01/26/16 07:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 07:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 07:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B05 (0-4.4) Dup

Lab Sample ID: 500-106454-23

Date Collected: 01/14/16 08:50

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 07:25	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 07:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 07:25	1
Magnesium	130		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:25	1
Manganese	1.6		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Potassium	1.4 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:25	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 07:25	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:25	1
Zinc	0.12 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 07:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:30	1
pH	8.10		0.200	0.200	SU			01/22/16 14:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B06 (0-4.4)

Lab Sample ID: 500-106454-24

Date Collected: 01/14/16 09:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	01/15/16 14:20	01/21/16 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/15/16 14:20	01/21/16 19:34	1
Dibromofluoromethane	106		75 - 120	01/15/16 14:20	01/21/16 19:34	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	01/15/16 14:20	01/21/16 19:34	1
Toluene-d8 (Surr)	107		75 - 122	01/15/16 14:20	01/21/16 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Anthracene	<0.044		0.044	0.0073	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Benzo[a]anthracene	0.074		0.044	0.0059	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B06 (0-4.4)

Lab Sample ID: 500-106454-24

Date Collected: 01/14/16 09:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.091		0.044	0.0085	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Benzo[b]fluoranthene	0.13		0.044	0.0095	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Benzo[g,h,i]perylene	0.051		0.044	0.014	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Benzo[k]fluoranthene	0.053		0.044	0.013	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.080	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Butyl benzyl phthalate	<0.22		0.22	0.083	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4-Chloroaniline	<0.88		0.88	0.21	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Chrysene	0.10		0.044	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Dibenz(a,h)anthracene	0.015 J		0.044	0.0085	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
1,4-Dichlorobenzene	<0.22		0.22	0.056	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4-Dichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Diethyl phthalate	<0.22		0.22	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Dimethyl phthalate	<0.22		0.22	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4,6-Dinitro-2-methylphenol	<0.88		0.88	0.35	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4-Dinitrophenol	<0.88		0.88	0.77	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,6-Dinitrotoluene	<0.22		0.22	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Fluoranthene	0.14		0.044	0.0081	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Fluorene	<0.044		0.044	0.0062	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Hexachlorobenzene	<0.088		0.088	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Hexachlorocyclopentadiene	<0.88		0.88	0.25	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Indeno[1,2,3-cd]pyrene	0.050		0.044	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Methylnaphthalene	<0.044		0.044	0.0081	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Methylphenol	<0.22		0.22	0.070	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
3 & 4 Methylphenol	<0.22		0.22	0.073	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Naphthalene	<0.044		0.044	0.0067	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B06 (0-4.4)

Lab Sample ID: 500-106454-24

Date Collected: 01/14/16 09:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.88		0.88	0.42	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
N-Nitrosodi-n-propylamine	<0.088		0.088	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Pentachlorophenol	<0.88		0.88	0.70	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Phenanthrene	0.084		0.044	0.0061	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Phenol	<0.22		0.22	0.097	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
Pyrene	0.12		0.044	0.0087	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	01/18/16 06:58	01/22/16 16:28	1
2-Fluorophenol	95		25 - 110	01/18/16 06:58	01/22/16 16:28	1
Nitrobenzene-d5	74		25 - 115	01/18/16 06:58	01/22/16 16:28	1
Phenol-d5	79		31 - 110	01/18/16 06:58	01/22/16 16:28	1
Terphenyl-d14	76		36 - 134	01/18/16 06:58	01/22/16 16:28	1
2,4,6-Tribromophenol	55		35 - 137	01/18/16 06:58	01/22/16 16:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.3	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Arsenic	7.3		0.64	0.30	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Barium	110		0.64	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Beryllium	0.66		0.26	0.056	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Cadmium	0.20		0.13	0.037	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Chromium	16		0.64	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Cobalt	11		0.32	0.073	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Copper	16		0.64	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Iron	16000		12	4.6	mg/Kg	☼	01/22/16 13:57	01/23/16 18:07	1
Lead	36		0.32	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Magnesium	2600		6.4	2.6	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Calcium	3500		13	4.1	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Manganese	670		0.64	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Nickel	21		0.64	0.17	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Selenium	0.53	J	0.64	0.32	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Vanadium	28		0.32	0.094	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Zinc	78		1.3	0.41	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Potassium	1200		32	5.2	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1
Sodium	450		64	8.5	mg/Kg	☼	01/20/16 10:14	01/20/16 17:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Barium	0.27	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 07:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 07:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 07:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Client Sample ID: 2645-27-B06 (0-4.4)

Lab Sample ID: 500-106454-24

Date Collected: 01/14/16 09:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	64		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 07:31	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Iron	1.1		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 07:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 07:31	1
Magnesium	23		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:31	1
Manganese	0.049		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Potassium	1.6 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 07:31	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:31	1
Zinc	0.035 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 07:31	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		01/24/16 14:00	01/25/16 15:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:10	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		01/25/16 14:15	01/26/16 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.022	0.011	mg/Kg	☼	01/19/16 17:45	01/20/16 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.21	mg/Kg	☼	01/21/16 14:30	01/21/16 18:30	1
pH	7.76		0.200	0.200	SU			01/22/16 14:54	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-5

Qualifiers

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.

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.
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
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Math Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: Math.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106454

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
		<u>115712</u>											
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM					
		<u>Bartlett, IL</u>				<u>CTK</u>							
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SUOLS	23 TAL Inorganics	TCLP 23 TAL Inorganics	PH	SPLP 23 TAL Inorganics	Preservative Key
			Date	Time									
<u>22</u>		<u>2645-27-005 (0-4.4)</u>	<u>1/14/16</u>	<u>8:45</u>	<u>3</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>HOLD SPLP analysis</u>
<u>23</u>		<u>2645-27-005 (0-4.4) Dup</u>	<u>1/14/16</u>	<u>8:50</u>	<u>3</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>24</u>		<u>2645-27-006 (0-4.4)</u>	<u>1/14/16</u>	<u>9:05</u>	<u>3</u>		<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
 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>1/15/16</u> Time <u>9:00</u>	Received By <u>David Beeden</u> Company <u>TA</u> Date <u>1-15-16</u> Time <u>9:15</u>
Relinquished By <u>David Beeden</u> Company <u>TA</u> Date <u>1/15/16</u> Time <u>10:25</u>	Received By <u>[Signature]</u> Company <u>TAL</u> Date <u>01/15/16</u> Time <u>1025</u>

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
met IL TAL Requirements & HOLD SPLP analysis. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106454-5

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 52+40 to 54+40 (ISGS Site 2645-28)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-28. See Exhibits 4.5, 4D, 5B and Table 37 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016.

- 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 J106314-6. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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.

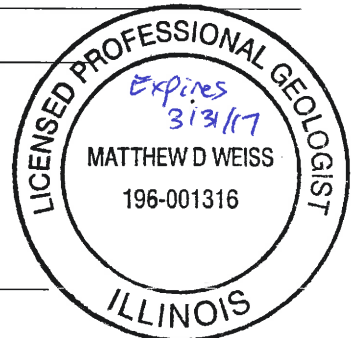
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

8/1/16
 Date:



Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-28)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-28-B01 (0-3)	2645-28-B02 (0-3)
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.042	0.0087
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.042	0.022
Chrysene	mg/kg	1.2	2.7	88		<0.042	0.012
Fluoranthene	mg/kg	2.7	4.1	3100		<0.042	0.016
Phenanthrene	mg/kg	1.3	2.5	210		<0.042	0.0061
Pyrene	mg/kg	1.9	3.0	2300		<0.042	0.023
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.5	7.8
Barium	mg/kg	---	110	1500		100	45
Cadmium	mg/kg	---	0.6	5.2		0.065	0.18
Chromium, total	mg/kg	---	16.2	21		18	13
Lead	mg/kg	---	36	107		16	13
Mercury	mg/kg	---	0.06	0.1		0.037	0.02
Selenium	mg/kg	---	0.48	1.3		0.36	0.61
Silver	mg/kg	---	0.55	4.4		<0.29	<0.24
Antimony	mg/kg	---	4.0	5		<1.2	0.35
Beryllium	mg/kg	---	0.59	22		0.73	0.52
Calcium	mg/kg	---	9,300	---		4200	110000
Cobalt	mg/kg	---	8.9	20		13	11
Copper	mg/kg	---	19.6	2900		15	21
Cyanide	mg/kg	---	0.51	---		<0.60	<0.44
Iron	mg/kg	---	15,900	15000		21000	16000
Magnesium	mg/kg	---	4,820	325000		4000	36000
Manganese	mg/kg	---	636	630		730	400
Nickel	mg/kg	---	18	100		22	28
Potassium	mg/kg	---	1,268	---		870	1600
Sodium	mg/kg	---	130	---		220	290
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.48
Vanadium	mg/kg	---	25.2	550		31	16
Zinc	mg/kg	---	95	5100		57	55
pH			6.25	9		8.14	8.94
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.091	0.039
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-28)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-28-B01 (0-3)	2645-28-B02 (0-3)
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.45	0.39
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		230	560
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.012	0.013
Cyanide,TCLP	mg/L	---	---	---		---	---
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		120	35
Manganese,TCLP	mg/L	---	---	---		0.95	0.18
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.7	2.2
Sodium,TCLP	mg/L	---	---	---		---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.081	0.16

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: 500-106314-6

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:10:05 PM

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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

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	6
Client Sample Results	7
Definitions	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Job ID: 500-106314-6

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-106314-6**

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-319947: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have 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 contained one acid and/or one base surrogate outside acceptance limits: 2645-28-B01 (0-3) (500-106314-22) and 2645-28-B02 (0-3) (500-106314-23). 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 method blank for preparation batch 500-319601 and analytical batch 500-319728 contained Chromium and Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B01 (0-3)

Lab Sample ID: 500-106314-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.065	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	4200		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	730		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	870		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.091		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-28-B02 (0-3)

Lab Sample ID: 500-106314-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0087	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	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	0.0061	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	0.96	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		96	31	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B02 (0-3) (Continued)

Lab Sample ID: 500-106314-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	400		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.94		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-22	2645-28-B01 (0-3)	Solid	01/13/16 14:00	01/14/16 11:00
500-106314-23	2645-28-B02 (0-3)	Solid	01/13/16 14:15	01/14/16 11:00

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B01 (0-3)

Lab Sample ID: 500-106314-22

Date Collected: 01/13/16 14:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0043	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Benzene	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Bromodichloromethane	<0.0056		0.0056	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Bromoform	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Bromomethane	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Carbon disulfide	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Chloroethane	<0.0056		0.0056	0.0023	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Chloromethane	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Dibromochloromethane	<0.0056		0.0056	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,1-Dichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,2-Dichloroethane	<0.0056		0.0056	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,1-Dichloroethene	<0.0056		0.0056	0.0020	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Methylene Chloride	<0.0056		0.0056	0.0042	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Toluene	<0.0056		0.0056	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/14/16 14:15	01/19/16 16:04	1
Dibromofluoromethane	109		75 - 120	01/14/16 14:15	01/19/16 16:04	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/14/16 14:15	01/19/16 16:04	1
Toluene-d8 (Surr)	110		75 - 122	01/14/16 14:15	01/19/16 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B01 (0-3)

Lab Sample ID: 500-106314-22

Date Collected: 01/13/16 14:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B01 (0-3)

Lab Sample ID: 500-106314-22

Date Collected: 01/13/16 14:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/18/16 17:00	01/20/16 04:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/18/16 17:00	01/20/16 04:58	1
2-Fluorophenol	73		25 - 110	01/18/16 17:00	01/20/16 04:58	1
Nitrobenzene-d5	72		25 - 115	01/18/16 17:00	01/20/16 04:58	1
Phenol-d5	63		31 - 110	01/18/16 17:00	01/20/16 04:58	1
Terphenyl-d14	122		36 - 134	01/18/16 17:00	01/20/16 04:58	1
2,4,6-Tribromophenol	31	X	35 - 137	01/18/16 17:00	01/20/16 04:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Arsenic	8.5		0.58	0.27	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Barium	100		0.58	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Beryllium	0.73		0.23	0.051	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Cadmium	0.065	J	0.12	0.034	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Chromium	18		0.58	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Copper	15		0.58	0.13	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Iron	21000		12	4.5	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Lead	16		0.29	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Magnesium	4000		5.8	2.4	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Calcium	4200		12	3.8	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Manganese	730		0.58	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Nickel	22		0.58	0.16	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Selenium	0.36	J	0.58	0.29	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Vanadium	31		0.29	0.085	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Zinc	57		1.2	0.37	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Potassium	870		29	4.8	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1
Sodium	220		58	7.7	mg/Kg	☼	01/15/16 08:35	01/15/16 17:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Barium	0.45	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 22:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 22:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 22:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B01 (0-3)

Lab Sample ID: 500-106314-22

Date Collected: 01/13/16 14:00

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 22:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Copper	0.012	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 22:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 22:24	1
Magnesium	120		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:24	1
Manganese	0.95		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Potassium	1.7	J	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 22:24	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:24	1
Zinc	0.081	J	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.091		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 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		01/18/16 15:00	01/20/16 20:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:28	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		01/18/16 13:30	01/19/16 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0098	mg/Kg	☼	01/15/16 15:15	01/18/16 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	01/20/16 12:15	01/20/16 16:01	1
pH	8.14		0.200	0.200	SU			01/19/16 16:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B02 (0-3)

Lab Sample ID: 500-106314-23

Date Collected: 01/13/16 14:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/14/16 14:15	01/19/16 16:29	1
Dibromofluoromethane	106		75 - 120	01/14/16 14:15	01/19/16 16:29	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/14/16 14:15	01/19/16 16:29	1
Toluene-d8 (Surr)	109		75 - 122	01/14/16 14:15	01/19/16 16:29	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	☼	01/18/16 17:00	01/20/16 05:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Benzo[a]anthracene	0.0087	J	0.037	0.0050	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B02 (0-3)

Lab Sample ID: 500-106314-23

Date Collected: 01/13/16 14:15

Matrix: Solid

Date Received: 01/14/16 11:00

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	☼	01/18/16 17:00	01/20/16 05:26	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0080	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Chrysene	0.012	J	0.037	0.010	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Fluoranthene	0.016	J	0.037	0.0069	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B02 (0-3)

Lab Sample ID: 500-106314-23

Date Collected: 01/13/16 14:15

Matrix: Solid

Date Received: 01/14/16 11:00

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	☼	01/18/16 17:00	01/20/16 05:26	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Phenanthrene	0.0061	J	0.037	0.0052	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
Pyrene	0.023	J	0.037	0.0074	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 17:00	01/20/16 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	01/18/16 17:00	01/20/16 05:26	1
2-Fluorophenol	88		25 - 110	01/18/16 17:00	01/20/16 05:26	1
Nitrobenzene-d5	78		25 - 115	01/18/16 17:00	01/20/16 05:26	1
Phenol-d5	81		31 - 110	01/18/16 17:00	01/20/16 05:26	1
Terphenyl-d14	147	X	36 - 134	01/18/16 17:00	01/20/16 05:26	1
2,4,6-Tribromophenol	18	X	35 - 137	01/18/16 17:00	01/20/16 05:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	0.96	0.20	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Arsenic	7.8		0.48	0.22	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Barium	45		0.48	0.088	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Beryllium	0.52		0.19	0.041	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Cadmium	0.18		0.096	0.028	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Chromium	13	B	0.48	0.082	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Cobalt	11		0.24	0.054	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Copper	21		0.48	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Iron	16000	B	9.6	3.7	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Lead	13		0.24	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Magnesium	36000		4.8	1.9	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Calcium	110000		96	31	mg/Kg	☼	01/15/16 08:35	01/16/16 19:58	10
Manganese	400		0.48	0.095	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Nickel	28		0.48	0.13	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Selenium	0.61		0.48	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Vanadium	16		0.24	0.070	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Zinc	55		0.96	0.30	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Potassium	1600		24	3.9	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1
Sodium	290	B	48	6.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Barium	0.39	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 22:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 22:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 22:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Client Sample ID: 2645-28-B02 (0-3)

Lab Sample ID: 500-106314-23

Date Collected: 01/13/16 14:15

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	560		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 22:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Copper	0.013	J	0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 22:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 22:46	1
Magnesium	35		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:46	1
Manganese	0.18		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Potassium	2.2	J	2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:46	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 22:46	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:46	1
Zinc	0.16	J	0.50	0.020	mg/L		01/18/16 15:00	01/19/16 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.039		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 18:41	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		01/18/16 15:00	01/20/16 20:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:31	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		01/18/16 13:30	01/19/16 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0093	mg/Kg	☼	01/15/16 15:15	01/18/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.44		0.44	0.15	mg/Kg	☼	01/20/16 12:15	01/20/16 16:02	1
pH	8.94		0.200	0.200	SU			01/19/16 16:12	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

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.

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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-6

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106314
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		NOCS		SVOCS		23 TAL Inorganics		TCLP 23 TAL Inorganics		PH		SPLP 23 TAL Inorganics		Preservative Key	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix										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 PM		Date		Time		# of Containers		Matrix										Comments	
<u>Barlett, IL</u>		<u>1157112</u>		<u>11/13/16</u>		<u>2:00</u>		<u>S</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>HOLD SPLP</u>	
<u>CTK</u>		<u>Lab PM</u>		<u>11/13/16</u>		<u>2:15</u>		<u>S</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>Analysis</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>Cheryl Kelly</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>	Received By <u>Matt</u>	Company <u>Terracon</u>	Date <u>1/13/16</u>	Time <u>5:30</u>
Relinquished By <u>Mitch</u>	Company <u>Terracon</u>	Date <u>1/14/16</u>	Time <u>9:10</u>	Received By <u>David Berken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>9:10</u>
Relinquished By <u>David Berken</u>	Company <u>TA</u>	Date <u>1/14/16</u>	Time <u>11:00</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CAT</u>	Date <u>1/14/16</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 WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
met IL TAGO Requirements
& please HOLD SPLP analysis. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-6

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

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	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

Stearns Road (near IL 59 and Stearns Road intersection) from IDOT STA 54+40 to 56+90 (ISGS Site 2645-29)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 B02 and B03 were sampled adjacent to ISGS Site No 2645-29. See Exhibits 5, 5B and Table 39 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106314-7. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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:

8/1/16

Date:



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

Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-29)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-29-B02 (0-1)	2645-29-B03 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Semivolatile Organic Analytical Parameters							
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.040
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.023	0.012
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.03	0.014
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.062	0.027
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.040	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.022	<0.040
Chrysene	mg/kg	1.2	2.7	88		0.042	0.019
Fluoranthene	mg/kg	2.7	4.1	3100		0.075	0.032
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.040	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		0.031	0.013
Pyrene	mg/kg	1.9	3.0	2300		0.074	0.025
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.7	10
Barium	mg/kg	---	110	1500		92	73
Cadmium	mg/kg	---	0.6	5.2		0.2	0.1
Chromium, total	mg/kg	---	16.2	21		14	18
Lead	mg/kg	---	36	107		23	17
Mercury	mg/kg	---	0.06	0.1		0.032	0.051
Selenium	mg/kg	---	0.48	1.3		0.85	0.62
Silver	mg/kg	---	0.55	4.4		<0.28	<0.28
Antimony	mg/kg	---	4.0	5		<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.57	0.69
Calcium	mg/kg	---	9,300	---		2900	3900
Cobalt	mg/kg	---	8.9	20		11	12
Copper	mg/kg	---	19.6	2900		14	19
Cyanide	mg/kg	---	0.51	---		<0.56	<0.61
Iron	mg/kg	---	15,900	15000		17000	22000
Magnesium	mg/kg	---	4,820	325000		2200	4300
Manganese	mg/kg	---	636	630		700	560
Nickel	mg/kg	---	18	100		20	28
Potassium	mg/kg	---	1,268	---		1000	1000
Sodium	mg/kg	---	130	---		420	850
Thallium	mg/kg	---	0.32	2.6		<0.57	<0.55
Vanadium	mg/kg	---	25.2	550		24	30
Zinc	mg/kg	---	95	5100		68	73
pH			6.25	9		8.56	8.7
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-29)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-29-B02 (0-1)	2645-29-B03 (0-1)
				CCDD	Sample Depth (feet)	(0-1)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/13/2016	01/13/2016
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.27	0.24
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
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	---	---	---		<0.050	<0.050
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	---	---	---		86	84
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		0.25	0.49
Magnesium,TCLP	mg/L	---	---	---		28	34
Manganese,TCLP	mg/L	---	---	---		0.02	0.11
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		0.9	1.2
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.12	<0.50

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: 500-106314-7

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

1/25/2016 4:10:48 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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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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7

8

9

10



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
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Job ID: 500-106314-7

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106314-7

Comments

No additional comments.

Receipt

The samples were received on 1/14/2016 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 2.5° C, 2.8° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-319947: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have 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 contained one acid and/or one base surrogate outside acceptance limits: 2645-29-B01 (0-1) (500-106314-24). 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 method blank for preparation batch 500-319601 and analytical batch 500-319728 contained Chromium and Iron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B01 (0-1)

Lab Sample ID: 500-106314-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0060	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0097	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.080		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.095		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.057		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.084		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.067		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		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	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	640		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	9.30		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-29-B02 (0-1)

Lab Sample ID: 500-106314-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.030	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.062		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.042		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.075		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.040	0.0056	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B02 (0-1) (Continued)

Lab Sample ID: 500-106314-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.074		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	2900		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	700		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.85		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	420	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	86		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-29-B03 (0-1)

Lab Sample ID: 500-106314-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.027	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J F2	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10	F1	0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	73	F1	0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69	F1	0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J F1	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	3900		11	3.6	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B03 (0-1) (Continued)

Lab Sample ID: 500-106314-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	560		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62	F1 F2	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	850	B F1	55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	84		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.49		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.051		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106314-24	2645-29-B01 (0-1)	Solid	01/13/16 13:25	01/14/16 11:00
500-106314-25	2645-29-B02 (0-1)	Solid	01/13/16 13:40	01/14/16 11:00
500-106314-26	2645-29-B03 (0-1)	Solid	01/13/16 13:50	01/14/16 11:00

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B01 (0-1)

Lab Sample ID: 500-106314-24

Date Collected: 01/13/16 13:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/14/16 14:15	01/19/16 16:54	1
Dibromofluoromethane	106		75 - 120	01/14/16 14:15	01/19/16 16:54	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	01/14/16 14:15	01/19/16 16:54	1
Toluene-d8 (Surr)	107		75 - 122	01/14/16 14:15	01/19/16 16:54	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	☼	01/18/16 17:00	01/21/16 01:29	1
Acenaphthylene	0.0060	J	0.039	0.0051	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Anthracene	0.0097	J	0.039	0.0065	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Benzo[a]anthracene	0.080		0.039	0.0053	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B01 (0-1)

Lab Sample ID: 500-106314-24

Date Collected: 01/13/16 13:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.095		0.039	0.0076	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Benzo[b]fluoranthene	0.16		0.039	0.0084	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Benzo[g,h,i]perylene	0.057		0.039	0.013	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Benzo[k]fluoranthene	0.084		0.039	0.012	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Chrysene	0.11		0.039	0.011	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Fluoranthene	0.19		0.039	0.0072	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Indeno[1,2,3-cd]pyrene	0.067		0.039	0.010	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B01 (0-1)

Lab Sample ID: 500-106314-24

Date Collected: 01/13/16 13:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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	☼	01/18/16 17:00	01/21/16 01:29	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Phenanthrene	0.058		0.039	0.0054	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
Pyrene	0.19		0.039	0.0078	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 17:00	01/21/16 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	01/18/16 17:00	01/21/16 01:29	1
2-Fluorophenol	77		25 - 110	01/18/16 17:00	01/21/16 01:29	1
Nitrobenzene-d5	62		25 - 115	01/18/16 17:00	01/21/16 01:29	1
Phenol-d5	50		31 - 110	01/18/16 17:00	01/21/16 01:29	1
Terphenyl-d14	117		36 - 134	01/18/16 17:00	01/21/16 01:29	1
2,4,6-Tribromophenol	19	X	35 - 137	01/18/16 17:00	01/21/16 01:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Arsenic	9.7		0.56	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Barium	44		0.56	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Beryllium	0.53		0.23	0.049	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Cadmium	0.23		0.11	0.033	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Chromium	12		0.56	0.097	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Cobalt	9.8		0.28	0.064	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Copper	22		0.56	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Iron	17000		11	4.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Lead	15		0.28	0.14	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Magnesium	39000		5.6	2.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Calcium	120000		110	36	mg/Kg	☼	01/15/16 08:35	01/16/16 20:02	10
Manganese	430		0.56	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Nickel	23		0.56	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Selenium	0.49	J	0.56	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Vanadium	18		0.28	0.082	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Zinc	74		1.1	0.36	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Potassium	1400		28	4.6	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1
Sodium	640		56	7.4	mg/Kg	☼	01/15/16 08:35	01/15/16 17:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Barium	0.45	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 22:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 22:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 22:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B01 (0-1)

Lab Sample ID: 500-106314-24

Date Collected: 01/13/16 13:25

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	470		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 22:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Iron	<0.40		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 22:53	1
Magnesium	110		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:53	1
Manganese	0.48		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Potassium	6.1		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 22:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 22:53	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 22:53	1
Zinc	0.044 J		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		01/22/16 13:24	01/23/16 18:48	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		01/18/16 15:00	01/20/16 20:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:35	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		01/18/16 13:30	01/19/16 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0097	mg/Kg	☼	01/15/16 15:15	01/18/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/20/16 12:15	01/20/16 16:03	1
pH	9.30		0.200	0.200	SU			01/19/16 16:15	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B02 (0-1)

Lab Sample ID: 500-106314-25

Date Collected: 01/13/16 13:40

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/14/16 14:15	01/19/16 17:19	1
Dibromofluoromethane	104		75 - 120	01/14/16 14:15	01/19/16 17:19	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/14/16 14:15	01/19/16 17:19	1
Toluene-d8 (Surr)	110		75 - 122	01/14/16 14:15	01/19/16 17:19	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	☼	01/18/16 17:00	01/21/16 01:58	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Benzo[a]anthracene	0.023	J	0.040	0.0054	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B02 (0-1)

Lab Sample ID: 500-106314-25

Date Collected: 01/13/16 13:40

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.030	J	0.040	0.0077	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Benzo[b]fluoranthene	0.062		0.040	0.0086	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Chrysene	0.042		0.040	0.011	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Fluoranthene	0.075		0.040	0.0074	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B02 (0-1)

Lab Sample ID: 500-106314-25

Date Collected: 01/13/16 13:40

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.0

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	☼	01/18/16 17:00	01/21/16 01:58	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Phenanthrene	0.031	J	0.040	0.0056	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
Pyrene	0.074		0.040	0.0079	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 17:00	01/21/16 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	01/18/16 17:00	01/21/16 01:58	1
2-Fluorophenol	78		25 - 110	01/18/16 17:00	01/21/16 01:58	1
Nitrobenzene-d5	75		25 - 115	01/18/16 17:00	01/21/16 01:58	1
Phenol-d5	64		31 - 110	01/18/16 17:00	01/21/16 01:58	1
Terphenyl-d14	108		36 - 134	01/18/16 17:00	01/21/16 01:58	1
2,4,6-Tribromophenol	40		35 - 137	01/18/16 17:00	01/21/16 01:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Arsenic	7.7		0.57	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Barium	92		0.57	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Beryllium	0.57		0.23	0.049	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Cadmium	0.20		0.11	0.033	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Chromium	14	B	0.57	0.098	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Copper	14		0.57	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Iron	17000	B	11	4.4	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Lead	23		0.28	0.14	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Magnesium	2200		5.7	2.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Calcium	2900		11	3.7	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Manganese	700		0.57	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Nickel	20		0.57	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Selenium	0.85		0.57	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Vanadium	24		0.28	0.083	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Zinc	68		1.1	0.36	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Potassium	1000		28	4.6	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1
Sodium	420	B	57	7.5	mg/Kg	☼	01/15/16 08:35	01/15/16 17:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Barium	0.27	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 23:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 23:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 23:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B02 (0-1)

Lab Sample ID: 500-106314-25

Date Collected: 01/13/16 13:40

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	86		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 23:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Iron	0.25 J		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 23:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 23:00	1
Magnesium	28		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 23:00	1
Manganese	0.020 J		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Potassium	0.90 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 23:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 23:00	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:00	1
Zinc	0.12 J		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 23:00	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		01/18/16 15:00	01/20/16 20:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/18/16 13:30	01/19/16 11:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0099	mg/Kg	☼	01/15/16 15:15	01/18/16 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/20/16 12:15	01/20/16 16:03	1
pH	8.56		0.200	0.200	SU			01/19/16 16:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B03 (0-1)

Lab Sample ID: 500-106314-26

Date Collected: 01/13/16 13:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Bromodichloromethane	<0.0051		0.0051	0.00085	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Dibromochloromethane	<0.0051		0.0051	0.00058	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,1-Dichloroethene	<0.0051		0.0051	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Methylene Chloride	<0.0051		0.0051	0.0038	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	01/14/16 14:15	01/19/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/14/16 14:15	01/19/16 17:44	1
Dibromofluoromethane	107		75 - 120	01/14/16 14:15	01/19/16 17:44	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/14/16 14:15	01/19/16 17:44	1
Toluene-d8 (Surr)	108		75 - 122	01/14/16 14:15	01/19/16 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040	F2	0.040	0.0072	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Anthracene	<0.040	F2	0.040	0.0067	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B03 (0-1)

Lab Sample ID: 500-106314-26

Date Collected: 01/13/16 13:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.014	J	0.040	0.0078	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Benzo[b]fluoranthene	0.027	J	0.040	0.0087	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Bis(2-chloroethyl)ether	<0.20	F2	0.20	0.060	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4-Chloroaniline	<0.81	F2	0.81	0.19	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4-Chloro-3-methylphenol	<0.40	F2	0.40	0.14	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Chloronaphthalene	<0.20	F2	0.20	0.044	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Chlorophenol	<0.20	F1 F2	0.20	0.069	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Chrysene	0.019	J	0.040	0.011	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Dibenz(a,h)anthracene	<0.040	F1	0.040	0.0078	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
1,2-Dichlorobenzene	<0.20	F1 F2	0.20	0.048	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
1,4-Dichlorobenzene	<0.20	F1 F2	0.20	0.052	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
3,3'-Dichlorobenzidine	<0.20	F2	0.20	0.056	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4,6-Dinitro-2-methylphenol	<0.81	F2	0.81	0.32	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4-Dinitrotoluene	<0.20	F2	0.20	0.064	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,6-Dinitrotoluene	<0.20	F2	0.20	0.079	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Di-n-octyl phthalate	<0.20	F2	0.20	0.066	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Fluoranthene	0.032	J F2	0.040	0.0075	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Fluorene	<0.040	F2	0.040	0.0057	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Hexachlorobenzene	<0.081	F2	0.081	0.0093	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Hexachlorobutadiene	<0.20	F2	0.20	0.063	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Hexachloroethane	<0.20	F1 F2	0.20	0.061	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Indeno[1,2,3-cd]pyrene	<0.040	F1	0.040	0.010	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Methylnaphthalene	<0.040	F2	0.040	0.0074	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Methylphenol	<0.20	F1 F2	0.20	0.065	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Nitroaniline	<0.20	F2	0.20	0.054	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
3-Nitroaniline	<0.40	F2	0.40	0.12	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
4-Nitroaniline	<0.40	F2	0.40	0.17	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B03 (0-1)

Lab Sample ID: 500-106314-26

Date Collected: 01/13/16 13:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81	F2	0.81	0.38	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,2'-oxybis[1-chloropropane]	<0.20	F2	0.20	0.047	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
Pyrene	0.025	J	0.040	0.0080	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
1,2,4-Trichlorobenzene	<0.20	F2	0.20	0.043	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 17:17	01/19/16 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	01/18/16 17:17	01/19/16 22:16	1
2-Fluorophenol	81		25 - 110	01/18/16 17:17	01/19/16 22:16	1
Nitrobenzene-d5	78		25 - 115	01/18/16 17:17	01/19/16 22:16	1
Phenol-d5	67		31 - 110	01/18/16 17:17	01/19/16 22:16	1
Terphenyl-d14	81		36 - 134	01/18/16 17:17	01/19/16 22:16	1
2,4,6-Tribromophenol	78		35 - 137	01/18/16 17:17	01/19/16 22:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1 F2	1.1	0.23	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Arsenic	10	F1	0.55	0.26	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Barium	73	F1	0.55	0.10	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Beryllium	0.69	F1	0.22	0.048	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Cadmium	0.10	J F1	0.11	0.032	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Chromium	18	B	0.55	0.095	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Cobalt	12		0.28	0.062	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Copper	19		0.55	0.12	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Iron	22000	B	11	4.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Lead	17		0.28	0.14	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Magnesium	4300		5.5	2.2	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Calcium	3900		11	3.6	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Manganese	560		0.55	0.11	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Nickel	28		0.55	0.15	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Selenium	0.62	F1 F2	0.55	0.27	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Silver	<0.28	F1	0.28	0.065	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Thallium	<0.55	F1	0.55	0.27	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Vanadium	30		0.28	0.081	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Zinc	73		1.1	0.35	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Potassium	1000		28	4.5	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1
Sodium	850	B F1	55	7.3	mg/Kg	☼	01/15/16 08:35	01/15/16 17:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Barium	0.24	J	0.50	0.050	mg/L		01/18/16 15:00	01/19/16 23:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/18/16 15:00	01/19/16 23:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/18/16 15:00	01/19/16 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

Client Sample ID: 2645-29-B03 (0-1)

Lab Sample ID: 500-106314-26

Date Collected: 01/13/16 13:50

Matrix: Solid

Date Received: 01/14/16 11:00

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	84		5.0	0.50	mg/L		01/18/16 15:00	01/19/16 23:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Cobalt	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Copper	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Iron	0.49		0.40	0.20	mg/L		01/18/16 15:00	01/19/16 23:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/18/16 15:00	01/19/16 23:07	1
Magnesium	34		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 23:07	1
Manganese	0.11		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Potassium	1.2 J		2.5	0.50	mg/L		01/18/16 15:00	01/19/16 23:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/18/16 15:00	01/19/16 23:07	1
Silver	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Vanadium	<0.025		0.025	0.010	mg/L		01/18/16 15:00	01/19/16 23:07	1
Zinc	<0.50		0.50	0.020	mg/L		01/18/16 15:00	01/19/16 23:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/18/16 15:00	01/20/16 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/18/16 15:00	01/20/16 20:41	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		01/18/16 13:30	01/19/16 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.021	0.011	mg/Kg	☼	01/15/16 15:15	01/18/16 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	01/20/16 12:15	01/20/16 16:03	1
pH	8.70		0.200	0.200	SU			01/19/16 16:21	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

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.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106314-7

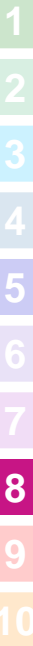
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: matthew@terracon.com

Bill To (optional)

Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-106314
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
		<u>11157112</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Portlett, IL</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>CTIC</u>											
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Matrix	Matrix	Matrix
<u>24</u>		<u>2645-29-001 (0-1)</u>	<u>11/13/16</u>	<u>1:25</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>25</u>		<u>2645-29-002 (0-1)</u>	<u>11/13/16</u>	<u>1:40</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>26</u>		<u>2645-29-003 (0-1)</u>	<u>11/13/16</u>	<u>1:50</u>	<u>5</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

- 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

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	Company	Date	Time	Received By	Company	Date	Time
<u>Ariel Kelly</u>	<u>Terracon</u>	<u>11/13/16</u>	<u>5:30</u>	<u>Matthew</u>	<u>Terracon</u>	<u>11/13/16</u>	<u>5:30</u>
<u>Matthew</u>	<u>Terracon</u>	<u>11/14/16</u>	<u>9:10</u>	<u>Daniel Becken</u>	<u>TA</u>	<u>1/14/16</u>	<u>9:10</u>
<u>Daniel Becken</u>	<u>TA</u>	<u>1/14/16</u>	<u>11:00</u>	<u>Shawn Skott</u>	<u>TA-CHT</u>	<u>1/14/16</u>	<u>11:00</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: met IL TACO Requirements & Please HOLD SPLP analysis. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106314-7

Login Number: 106314

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,3.0,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	





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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 116+75 to 119+60 (ISGS Site 2645-30)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 and B03 were sampled adjacent to ISGS Site No 2645-30. See Exhibits 8, 8C and Table 41 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-6. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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.

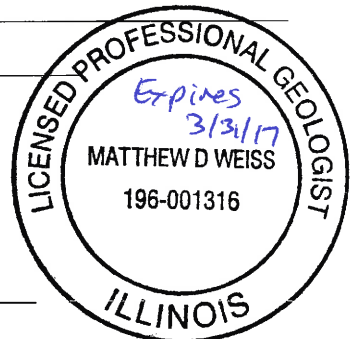
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

8/1/16
 Date:



Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-30)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-30-B01 (0-2.3)	2645-30-B02 (0-2.3)	2645-30-B03 (0-2.3)
				CCDD	Sample Depth (feet)	(0-2.3)	(0-2.3)	(0-2.3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
Semivolatile Organic Analytical Parameters								
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.035	0.023	<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.049	0.032	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.085	0.050	<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.038	0.027	<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.033	0.021	<0.038
Chrysene	mg/kg	1.2	2.7	88		0.052	0.033	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.10	0.039	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.033	0.023	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.031	0.022	<0.038
Pyrene	mg/kg	1.9	3.0	2300		0.071	0.037	<0.038
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		6.7	7.2	8.6
Barium	mg/kg	---	110	1500		78	86	65
Cadmium	mg/kg	---	0.6	5.2		0.36	0.34	0.12
Chromium, total	mg/kg	---	16.2	21		28	22	15
Lead	mg/kg	---	36	107		45	34	39
Mercury	mg/kg	---	0.06	0.1		0.026	0.025	0.040
Selenium	mg/kg	---	0.48	1.3		0.37	0.57	<0.55
Silver	mg/kg	---	0.55	4.4		<0.29	0.095	<0.28
Antimony	mg/kg	---	4.0	5		0.35	0.42	0.52
Beryllium	mg/kg	---	0.59	22		0.47	0.48	0.60
Calcium	mg/kg	---	9,300	---		54000	28000	69000
Cobalt	mg/kg	---	8.9	20		8.3	10	11
Copper	mg/kg	---	19.6	2900		44	34	19
Cyanide	mg/kg	---	0.51	---		0.93	<0.56	<0.55
Iron	mg/kg	---	15,900	15000		14000	15000	19000
Magnesium	mg/kg	---	4,820	325000		22000	17000	30000
Manganese	mg/kg	---	636	630		390	540	320
Nickel	mg/kg	---	18	100		46	21	28
Potassium	mg/kg	---	1,268	---		1300	1300	1400
Sodium	mg/kg	---	130	---		980	840	230
Thallium	mg/kg	---	0.32	2.6		<0.57	<0.59	<0.55
Vanadium	mg/kg	---	25.2	550		21	21	22
Zinc	mg/kg	---	95	5100		140	130	64
pH			6.25	9		7.86	8.85	8.12
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.43	--	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-30)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-30-B01 (0-2.3)	2645-30-B02 (0-2.3)	2645-30-B03 (0-2.3)
				CCDD	Sample Depth (feet)	(0-2.3)	(0-2.3)	(0-2.3)
				mg/kg pH 6.25-9.0	Date Collected	01/14/2016	01/14/2016	01/14/2016
		Chicago	MSAs					
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.51	0.36	0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<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	---	---	---		280	230	260
Cobalt,TCLP	mg/L	---	---	---		0.027	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		81	100	120
Manganese,TCLP	mg/L	---	---	---		6.2	0.058	0.14
Nickel,TCLP	mg/L	---	---	---		0.076	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		5.3	2.7	0.80
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	---	---	---		0.11	0.028	0.025

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: 500-106454-6

Client Project/Site: IDOT - Bartlett - WO 012

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

1/29/2016 1:27:12 PM

Richard Wright, Senior Project Manager

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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	11
Client Sample Results	12
Definitions	44
Chain of Custody	45
Receipt Checklists	46

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Job ID: 500-106454-6

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106454-6

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-320297 recovered outside control limits for the following analyte: Chloroethane.

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 contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2645-30-B05 (0-2.3) (500-106454-30). The laboratory's SOP allows one acid and/or one base/neutral 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 method blank for preparation batch 500-320170 and analytical batch 500-320323 contained Calcium and Magnesium above the reporting limit (RL). Associated samples 2645-30-B01 (0-2.3) (500-106454-25), 2645-30-B02 (0-2.3) (500-106454-26), 2645-30-B03 (0-2.3) (500-106454-27), 2645-30-B04 (0-2.3) (500-106454-28), 2645-30-B04 (0-2.3) Dup (500-106454-29), 2645-30-B05 (0-2.3) (500-106454-30), 2645-30-B06 (0-2.3) (500-106454-31) and 2645-30-B07 (0-2.3) (500-106454-32) were not re-extracted and/or re-analyzed because results were greater than 10X the values found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B01 (0-2.3)

Lab Sample ID: 500-106454-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.035	J	0.040	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.049		0.040	0.0078	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.085		0.040	0.0087	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038	J	0.040	0.013	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.033	J	0.040	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.052		0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.10		0.040	0.0075	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	0.031	J	0.040	0.0056	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.071		0.040	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.35	J	1.1	0.24	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	6.7		0.57	0.26	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	78		0.57	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.47		0.23	0.050	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.36		0.11	0.033	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	28		0.57	0.099	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	8.3		0.29	0.065	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	44		0.57	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	14000		12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	45		0.29	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	54000	B	110	37	mg/Kg	10	☼	☼	6010B	Total/NA
Manganese	390		0.57	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	46		0.57	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.37	J	0.57	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	21		0.29	0.084	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	140		1.1	0.36	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1300		29	4.7	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	980		57	7.6	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.076		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	5.3		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.026		0.019	0.0099	mg/Kg	1	☼	☼	7471B	Total/NA
Cyanide, Total	0.93		0.49	0.16	mg/Kg	1	☼	☼	9014	Total/NA
pH	7.86		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2645-30-B02 (0-2.3)

Lab Sample ID: 500-106454-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.039	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.039	0.0075	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.050		0.039	0.0084	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B02 (0-2.3) (Continued)

Lab Sample ID: 500-106454-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.033	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.037	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.095	J	0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	130		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.025		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.85		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-30-B03 (0-2.3)

Lab Sample ID: 500-106454-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.55	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B03 (0-2.3) (Continued)

Lab Sample ID: 500-106454-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	28		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.80	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.040		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-30-B04 (0-2.3)

Lab Sample ID: 500-106454-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.038		0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.085		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.36		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.39		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.63		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.11	J	0.19	0.094	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.43		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.1		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.050		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.015	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.88		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.89		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.57	J	1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	62		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.0	0.32	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3) (Continued)

Lab Sample ID: 500-106454-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1400		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.089		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.20		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-30-B04 (0-2.3) Dup

Lab Sample ID: 500-106454-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.052		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.087		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.077		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.070		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	9.19		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B05 (0-2.3)

Lab Sample ID: 500-106454-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.027	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	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	0.041		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.012	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.039		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	90		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.78		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.51		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2645-30-B06 (0-2.3)

Lab Sample ID: 500-106454-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0080	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.019	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.1	0.22	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B06 (0-2.3) (Continued)

Lab Sample ID: 500-106454-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	7.4		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	58		0.54	0.098	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.47		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.15		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	12		0.54	0.092	mg/Kg	1		☼	6010B	Total/NA
Cobalt	8.5		0.27	0.060	mg/Kg	1		☼	6010B	Total/NA
Copper	16		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	11000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	17		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	37000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	97000	B	110	34	mg/Kg	10		☼	6010B	Total/NA
Manganese	420		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.27	0.078	mg/Kg	1		☼	6010B	Total/NA
Zinc	52		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	1200		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	760		54	7.1	mg/Kg	1		☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.014	J	0.018	0.0095	mg/Kg	1		☼	7471B	Total/NA
pH	9.14		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2645-30-B07 (0-2.3)

Lab Sample ID: 500-106454-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	0.018	J	0.037	0.0067	mg/Kg	1		☼	8270D	Total/NA
Anthracene	0.040		0.037	0.0062	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.037	0.0050	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.037	0.0072	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.037	0.0081	mg/Kg	1		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.066		0.037	0.012	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.20		0.037	0.010	mg/Kg	1		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.020	J	0.037	0.0072	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.54		0.037	0.0069	mg/Kg	1		☼	8270D	Total/NA
Fluorene	0.022	J	0.037	0.0053	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.068		0.037	0.0097	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.28		0.037	0.0052	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.42		0.037	0.0074	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.70	J	1.1	0.22	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.9		0.53	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	63		0.53	0.097	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.53		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.23		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.53	0.091	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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B07 (0-2.3) (Continued)

Lab Sample ID: 500-106454-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	11		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	52		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	440		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	99		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.2		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.030		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	9.13		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-25	2645-30-B01 (0-2.3)	Solid	01/14/16 09:15	01/15/16 10:25
500-106454-26	2645-30-B02 (0-2.3)	Solid	01/14/16 09:20	01/15/16 10:25
500-106454-27	2645-30-B03 (0-2.3)	Solid	01/14/16 09:30	01/15/16 10:25
500-106454-28	2645-30-B04 (0-2.3)	Solid	01/14/16 09:40	01/15/16 10:25
500-106454-29	2645-30-B04 (0-2.3) Dup	Solid	01/14/16 09:45	01/15/16 10:25
500-106454-30	2645-30-B05 (0-2.3)	Solid	01/14/16 09:50	01/15/16 10:25
500-106454-31	2645-30-B06 (0-2.3)	Solid	01/14/16 10:05	01/15/16 10:25
500-106454-32	2645-30-B07 (0-2.3)	Solid	01/14/16 10:10	01/15/16 10:25



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B01 (0-2.3)

Lab Sample ID: 500-106454-25

Date Collected: 01/14/16 09:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/15/16 14:20	01/21/16 19:59	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/21/16 19:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	01/15/16 14:20	01/21/16 19:59	1
Toluene-d8 (Surr)	106		75 - 122	01/15/16 14:20	01/21/16 19:59	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	☼	01/18/16 06:58	01/22/16 16:54	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Benzo[a]anthracene	0.035	J	0.040	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B01 (0-2.3)

Lab Sample ID: 500-106454-25

Date Collected: 01/14/16 09:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.049		0.040	0.0078	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Benzo[b]fluoranthene	0.085		0.040	0.0087	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Benzo[g,h,i]perylene	0.038	J	0.040	0.013	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Benzo[k]fluoranthene	0.033	J	0.040	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Chrysene	0.052		0.040	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Fluoranthene	0.10		0.040	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B01 (0-2.3)

Lab Sample ID: 500-106454-25

Date Collected: 01/14/16 09:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.9

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	☼	01/18/16 06:58	01/22/16 16:54	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Phenanthrene	0.031	J	0.040	0.0056	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
Pyrene	0.071		0.040	0.0080	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/18/16 06:58	01/22/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	01/18/16 06:58	01/22/16 16:54	1
2-Fluorophenol	109		25 - 110	01/18/16 06:58	01/22/16 16:54	1
Nitrobenzene-d5	78		25 - 115	01/18/16 06:58	01/22/16 16:54	1
Phenol-d5	100		31 - 110	01/18/16 06:58	01/22/16 16:54	1
Terphenyl-d14	90		36 - 134	01/18/16 06:58	01/22/16 16:54	1
2,4,6-Tribromophenol	77		35 - 137	01/18/16 06:58	01/22/16 16:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.1	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Arsenic	6.7		0.57	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Barium	78		0.57	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Beryllium	0.47		0.23	0.050	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Cadmium	0.36		0.11	0.033	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Chromium	28		0.57	0.099	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Cobalt	8.3		0.29	0.065	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Copper	44		0.57	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Iron	14000		12	4.6	mg/Kg	☼	01/22/16 13:57	01/23/16 18:12	1
Lead	45		0.29	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Magnesium	22000		5.7	2.3	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Calcium	54000	B	110	37	mg/Kg	☼	01/20/16 10:14	01/20/16 19:12	10
Manganese	390		0.57	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Nickel	46		0.57	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Selenium	0.37	J	0.57	0.28	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Vanadium	21		0.29	0.084	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Zinc	140		1.1	0.36	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Potassium	1300		29	4.7	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1
Sodium	980		57	7.6	mg/Kg	☼	01/20/16 10:14	01/20/16 17:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Barium	0.51		0.50	0.050	mg/L		01/24/16 14:00	01/26/16 07:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 07:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 07:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B01 (0-2.3)

Lab Sample ID: 500-106454-25

Date Collected: 01/14/16 09:15

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 07:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Cobalt	0.027		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 07:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 07:54	1
Magnesium	81		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:54	1
Manganese	6.2		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Nickel	0.076		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Potassium	5.3		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 07:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 07:54	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 07:54	1
Zinc	0.11 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 07:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.43		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 22:56	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		01/24/16 14:00	01/25/16 15:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:14	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		01/25/16 14:15	01/26/16 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0099	mg/Kg	☼	01/19/16 17:45	01/20/16 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.93		0.49	0.16	mg/Kg	☼	01/21/16 14:30	01/21/16 18:30	1
pH	7.86		0.200	0.200	SU			01/22/16 14:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B02 (0-2.3)

Lab Sample ID: 500-106454-26

Date Collected: 01/14/16 09:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/15/16 14:20	01/21/16 20:24	1
Dibromofluoromethane	108		75 - 120	01/15/16 14:20	01/21/16 20:24	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/15/16 14:20	01/21/16 20:24	1
Toluene-d8 (Surr)	108		75 - 122	01/15/16 14:20	01/21/16 20:24	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	☼	01/18/16 06:58	01/22/16 15:37	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Benzo[a]anthracene	0.023	J	0.039	0.0052	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B02 (0-2.3)

Lab Sample ID: 500-106454-26

Date Collected: 01/14/16 09:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.032	J	0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Benzo[b]fluoranthene	0.050		0.039	0.0084	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Benzo[k]fluoranthene	0.021	J	0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Chrysene	0.033	J	0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Fluoranthene	0.039		0.039	0.0072	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.039	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B02 (0-2.3)

Lab Sample ID: 500-106454-26

Date Collected: 01/14/16 09:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.7

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	☼	01/18/16 06:58	01/22/16 15:37	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Phenanthrene	0.022	J	0.039	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
Pyrene	0.037	J	0.039	0.0077	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/18/16 06:58	01/22/16 15:37	1
2-Fluorophenol	101		25 - 110	01/18/16 06:58	01/22/16 15:37	1
Nitrobenzene-d5	83		25 - 115	01/18/16 06:58	01/22/16 15:37	1
Phenol-d5	89		31 - 110	01/18/16 06:58	01/22/16 15:37	1
Terphenyl-d14	82		36 - 134	01/18/16 06:58	01/22/16 15:37	1
2,4,6-Tribromophenol	53		35 - 137	01/18/16 06:58	01/22/16 15:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.2	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Arsenic	7.2		0.59	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Barium	86		0.59	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Beryllium	0.48		0.23	0.051	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Cadmium	0.34		0.12	0.034	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Chromium	22		0.59	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Cobalt	10		0.29	0.066	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Copper	34		0.59	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Iron	15000		12	4.5	mg/Kg	☼	01/22/16 13:57	01/23/16 18:17	1
Lead	34		0.29	0.15	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Magnesium	17000		5.9	2.4	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Calcium	28000		12	3.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Manganese	540		0.59	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Nickel	21		0.59	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Selenium	0.57	J	0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Silver	0.095	J	0.29	0.069	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Vanadium	21		0.29	0.086	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Zinc	130		1.2	0.37	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Potassium	1300		29	4.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1
Sodium	840		59	7.7	mg/Kg	☼	01/20/16 10:14	01/20/16 17:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Barium	0.36	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B02 (0-2.3)

Lab Sample ID: 500-106454-26

Date Collected: 01/14/16 09:20

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:01	1
Magnesium	100		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:01	1
Manganese	0.058		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Potassium	2.7		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:01	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:01	1
Zinc	0.028 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:18	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		01/25/16 14:15	01/26/16 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0094	mg/Kg	☼	01/19/16 17:45	01/20/16 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:31	1
pH	8.85		0.200	0.200	SU			01/22/16 15:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B03 (0-2.3)

Lab Sample ID: 500-106454-27

Date Collected: 01/14/16 09:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	01/15/16 14:20	01/21/16 12:44	1
Dibromofluoromethane	106		75 - 120	01/15/16 14:20	01/21/16 12:44	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/15/16 14:20	01/21/16 12:44	1
Toluene-d8 (Surr)	100		75 - 122	01/15/16 14:20	01/21/16 12:44	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	☼	01/18/16 06:58	01/22/16 16:02	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B03 (0-2.3)

Lab Sample ID: 500-106454-27

Date Collected: 01/14/16 09:30

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B03 (0-2.3)

Lab Sample ID: 500-106454-27

Date Collected: 01/14/16 09:30

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.78		0.78	0.37	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	01/18/16 06:58	01/22/16 16:02	1
2-Fluorophenol	103		25 - 110	01/18/16 06:58	01/22/16 16:02	1
Nitrobenzene-d5	83		25 - 115	01/18/16 06:58	01/22/16 16:02	1
Phenol-d5	82		31 - 110	01/18/16 06:58	01/22/16 16:02	1
Terphenyl-d14	82		36 - 134	01/18/16 06:58	01/22/16 16:02	1
2,4,6-Tribromophenol	66		35 - 137	01/18/16 06:58	01/22/16 16:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.23	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Arsenic	8.6		0.55	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Barium	65		0.55	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Beryllium	0.60		0.22	0.048	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Cadmium	0.12		0.11	0.032	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Chromium	15		0.55	0.095	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Cobalt	11		0.28	0.062	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Copper	19		0.55	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Iron	19000		11	4.1	mg/Kg	☼	01/22/16 13:57	01/23/16 18:22	1
Lead	39		0.28	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Magnesium	30000		5.5	2.2	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Calcium	69000	B	110	36	mg/Kg	☼	01/20/16 10:14	01/20/16 19:16	10
Manganese	320		0.55	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Nickel	28		0.55	0.15	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Vanadium	22		0.28	0.081	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Zinc	64		1.1	0.35	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Potassium	1400		28	4.5	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1
Sodium	230		55	7.3	mg/Kg	☼	01/20/16 10:14	01/20/16 17:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Barium	0.37	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B03 (0-2.3)

Lab Sample ID: 500-106454-27

Date Collected: 01/14/16 09:30

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:08	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:08	1
Manganese	0.14		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Potassium	0.80	J	2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:08	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:08	1
Zinc	0.025	J	0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:22	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		01/25/16 14:15	01/26/16 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0095	mg/Kg	☼	01/19/16 17:45	01/20/16 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/21/16 14:30	01/21/16 18:31	1
pH	8.12		0.200	0.200	SU			01/22/16 15:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3)

Lab Sample ID: 500-106454-28

Date Collected: 01/14/16 09:40

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	01/15/16 14:20	01/21/16 13:08	1
Dibromofluoromethane	104		75 - 120	01/15/16 14:20	01/21/16 13:08	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/15/16 14:20	01/21/16 13:08	1
Toluene-d8 (Surr)	99		75 - 122	01/15/16 14:20	01/21/16 13:08	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	☼	01/18/16 06:58	01/22/16 17:46	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Anthracene	0.085		0.038	0.0063	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Benzo[a]anthracene	0.36		0.038	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3)

Lab Sample ID: 500-106454-28

Date Collected: 01/14/16 09:40

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.39		0.038	0.0073	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Benzo[b]fluoranthene	0.63		0.038	0.0082	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Benzo[k]fluoranthene	0.27		0.038	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Carbazole	0.11	J	0.19	0.094	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Chrysene	0.43		0.038	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Dibenz(a,h)anthracene	0.039		0.038	0.0073	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Fluoranthene	1.1		0.038	0.0070	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Fluorene	0.050		0.038	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Indeno[1,2,3-cd]pyrene	0.15		0.038	0.0098	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Naphthalene	0.015	J	0.038	0.0058	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3)

Lab Sample ID: 500-106454-28

Date Collected: 01/14/16 09:40

Matrix: Solid

Date Received: 01/15/16 10:25

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	☼	01/18/16 06:58	01/22/16 17:46	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Phenanthrene	0.88		0.038	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
Pyrene	0.89		0.038	0.0075	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	01/18/16 06:58	01/22/16 17:46	1
2-Fluorophenol	104		25 - 110	01/18/16 06:58	01/22/16 17:46	1
Nitrobenzene-d5	78		25 - 115	01/18/16 06:58	01/22/16 17:46	1
Phenol-d5	102		31 - 110	01/18/16 06:58	01/22/16 17:46	1
Terphenyl-d14	99		36 - 134	01/18/16 06:58	01/22/16 17:46	1
2,4,6-Tribromophenol	68		35 - 137	01/18/16 06:58	01/22/16 17:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.0	0.21	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Arsenic	7.1		0.51	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Barium	63		0.51	0.094	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Beryllium	0.50		0.21	0.044	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Cadmium	0.18		0.10	0.030	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Chromium	17		0.51	0.088	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Cobalt	9.5		0.26	0.058	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Copper	21		0.51	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Iron	12000		11	4.1	mg/Kg	☼	01/22/16 13:57	01/23/16 18:27	1
Lead	62		0.26	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Magnesium	35000		5.1	2.1	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Calcium	90000	B	100	33	mg/Kg	☼	01/20/16 10:14	01/20/16 19:20	10
Manganese	400		0.51	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Nickel	21		0.51	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Selenium	0.26	J	0.51	0.25	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Vanadium	22		0.26	0.075	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Zinc	70		1.0	0.32	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Potassium	1400		26	4.2	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1
Sodium	1200		51	6.8	mg/Kg	☼	01/20/16 10:14	01/20/16 17:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Barium	0.41	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3)

Lab Sample ID: 500-106454-28

Date Collected: 01/14/16 09:40

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:14	1
Magnesium	100		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:14	1
Manganese	0.089		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Potassium	3.5		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:14	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:14	1
Zinc	0.022 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:14	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		01/24/16 14:00	01/25/16 15:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:26	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		01/25/16 14:15	01/26/16 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:31	1
pH	9.20		0.200	0.200	SU			01/22/16 15:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3) Dup

Lab Sample ID: 500-106454-29

Date Collected: 01/14/16 09:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Chloroform	<0.0039		0.0039	0.00075	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Dibromochloromethane	<0.0039		0.0039	0.00044	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Tetrachloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	01/15/16 14:20	01/21/16 13:32	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 13:32	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/15/16 14:20	01/21/16 13:32	1
Toluene-d8 (Surr)	98		75 - 122	01/15/16 14:20	01/21/16 13:32	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	☼	01/18/16 06:58	01/22/16 18:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3) Dup

Lab Sample ID: 500-106454-29

Date Collected: 01/14/16 09:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.052		0.039	0.0076	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Benzo[b]fluoranthene	0.087		0.039	0.0084	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Benzo[k]fluoranthene	0.036 J		0.039	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Chrysene	0.046		0.039	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Fluoranthene	0.077		0.039	0.0073	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Indeno[1,2,3-cd]pyrene	0.025 J		0.039	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3) Dup

Lab Sample ID: 500-106454-29

Date Collected: 01/14/16 09:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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	☼	01/18/16 06:58	01/22/16 18:12	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
Pyrene	0.070		0.039	0.0078	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	01/18/16 06:58	01/22/16 18:12	1
2-Fluorophenol	81		25 - 110	01/18/16 06:58	01/22/16 18:12	1
Nitrobenzene-d5	71		25 - 115	01/18/16 06:58	01/22/16 18:12	1
Phenol-d5	81		31 - 110	01/18/16 06:58	01/22/16 18:12	1
Terphenyl-d14	99		36 - 134	01/18/16 06:58	01/22/16 18:12	1
2,4,6-Tribromophenol	48		35 - 137	01/18/16 06:58	01/22/16 18:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.0	0.22	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Arsenic	8.0		0.52	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Barium	55		0.52	0.096	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Beryllium	0.55		0.21	0.045	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Cadmium	0.15		0.10	0.030	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Chromium	16		0.52	0.090	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Cobalt	10		0.26	0.059	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Copper	20		0.52	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Iron	15000		12	4.6	mg/Kg	☼	01/22/16 13:57	01/23/16 18:32	1
Lead	25		0.26	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Magnesium	35000		5.2	2.1	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Calcium	87000	B	100	34	mg/Kg	☼	01/20/16 10:14	01/20/16 19:24	10
Manganese	380		0.52	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Nickel	25		0.52	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Selenium	0.31	J	0.52	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Vanadium	22		0.26	0.076	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Zinc	65		1.0	0.33	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Potassium	1800		26	4.3	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1
Sodium	1200		52	6.9	mg/Kg	☼	01/20/16 10:14	01/20/16 18:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Barium	0.39	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B04 (0-2.3) Dup

Lab Sample ID: 500-106454-29

Date Collected: 01/14/16 09:45

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:21	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:21	1
Magnesium	100		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:21	1
Manganese	0.085		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Potassium	3.0		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:21	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:21	1
Zinc	0.038 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:21	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		01/24/16 14:00	01/25/16 15:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/25/16 14:15	01/26/16 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0096	mg/Kg	☼	01/19/16 17:45	01/20/16 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	01/21/16 14:30	01/21/16 18:32	1
pH	9.19		0.200	0.200	SU			01/22/16 15:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B05 (0-2.3)

Lab Sample ID: 500-106454-30

Date Collected: 01/14/16 09:50

Matrix: Solid

Date Received: 01/15/16 10:25

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		0.016	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Chlorobenzene	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	01/15/16 14:20	01/21/16 13:56	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 13:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	01/15/16 14:20	01/21/16 13:56	1
Toluene-d8 (Surr)	98		75 - 122	01/15/16 14:20	01/21/16 13:56	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	☼	01/18/16 06:58	01/25/16 17:47	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B05 (0-2.3)

Lab Sample ID: 500-106454-30

Date Collected: 01/14/16 09:50

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.027	J	0.037	0.0072	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Benzo[b]fluoranthene	0.052		0.037	0.0081	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Fluoranthene	0.041		0.037	0.0069	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.037	0.0097	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B05 (0-2.3)

Lab Sample ID: 500-106454-30

Date Collected: 01/14/16 09:50

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.36	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Phenanthrene	0.012	J	0.037	0.0052	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
Pyrene	0.039		0.037	0.0074	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 06:58	01/25/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	01/18/16 06:58	01/25/16 17:47	1
2-Fluorophenol	98		25 - 110	01/18/16 06:58	01/25/16 17:47	1
Nitrobenzene-d5	80		25 - 115	01/18/16 06:58	01/25/16 17:47	1
Phenol-d5	88		31 - 110	01/18/16 06:58	01/25/16 17:47	1
Terphenyl-d14	115		36 - 134	01/18/16 06:58	01/25/16 17:47	1
2,4,6-Tribromophenol	33	X	35 - 137	01/18/16 06:58	01/25/16 17:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.24	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Arsenic	8.1		0.57	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Barium	90		0.57	0.10	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Beryllium	0.55		0.23	0.050	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Cadmium	0.15		0.11	0.033	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Chromium	16		0.57	0.098	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Cobalt	12		0.29	0.065	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Copper	22		0.57	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Iron	12000		11	4.3	mg/Kg	☼	01/22/16 13:57	01/23/16 18:37	1
Lead	37		0.29	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Magnesium	23000		5.7	2.3	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Calcium	65000	B	110	37	mg/Kg	☼	01/20/16 10:14	01/20/16 19:36	10
Manganese	400		0.57	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Nickel	30		0.57	0.16	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Selenium	0.48	J	0.57	0.28	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Vanadium	24		0.29	0.084	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Zinc	71		1.1	0.36	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Potassium	1600		29	4.7	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1
Sodium	1600		57	7.6	mg/Kg	☼	01/20/16 10:14	01/20/16 18:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Barium	0.48	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B05 (0-2.3)

Lab Sample ID: 500-106454-30

Date Collected: 01/14/16 09:50

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:28	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:28	1
Manganese	0.50		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Potassium	1.7 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:28	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:28	1
Zinc	0.027 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.78		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 23:03	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		01/24/16 14:00	01/25/16 15:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:47	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		01/25/16 14:15	01/26/16 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 14:30	01/21/16 18:33	1
pH	9.51		0.200	0.200	SU			01/22/16 15:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B06 (0-2.3)

Lab Sample ID: 500-106454-31

Date Collected: 01/14/16 10:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	01/15/16 14:20	01/21/16 14:20	1
Dibromofluoromethane	105		75 - 120	01/15/16 14:20	01/21/16 14:20	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/15/16 14:20	01/21/16 14:20	1
Toluene-d8 (Surr)	100		75 - 122	01/15/16 14:20	01/21/16 14:20	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	☼	01/18/16 06:58	01/22/16 19:03	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Benzo[a]anthracene	0.0080	J	0.038	0.0051	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B06 (0-2.3)

Lab Sample ID: 500-106454-31

Date Collected: 01/14/16 10:05

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.011	J	0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Benzo[b]fluoranthene	0.021	J	0.038	0.0083	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Chrysene	0.011	J	0.038	0.010	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Fluoranthene	0.019	J	0.038	0.0071	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B06 (0-2.3)

Lab Sample ID: 500-106454-31

Date Collected: 01/14/16 10:05

Matrix: Solid

Date Received: 01/15/16 10:25

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	☼	01/18/16 06:58	01/22/16 19:03	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
Pyrene	0.017	J	0.038	0.0076	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/18/16 06:58	01/22/16 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	01/18/16 06:58	01/22/16 19:03	1
2-Fluorophenol	102		25 - 110	01/18/16 06:58	01/22/16 19:03	1
Nitrobenzene-d5	88		25 - 115	01/18/16 06:58	01/22/16 19:03	1
Phenol-d5	100		31 - 110	01/18/16 06:58	01/22/16 19:03	1
Terphenyl-d14	112		36 - 134	01/18/16 06:58	01/22/16 19:03	1
2,4,6-Tribromophenol	44		35 - 137	01/18/16 06:58	01/22/16 19:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.22	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Arsenic	7.4		0.54	0.25	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Barium	58		0.54	0.098	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Beryllium	0.47		0.21	0.046	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Cadmium	0.15		0.11	0.031	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Chromium	12		0.54	0.092	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Cobalt	8.5		0.27	0.060	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Copper	16		0.54	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Iron	11000		11	4.4	mg/Kg	☼	01/22/16 13:57	01/23/16 18:42	1
Lead	17		0.27	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Magnesium	37000		5.4	2.2	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Calcium	97000	B	110	34	mg/Kg	☼	01/20/16 10:14	01/20/16 19:40	10
Manganese	420		0.54	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Nickel	19		0.54	0.15	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Selenium	<0.54		0.54	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Vanadium	20		0.27	0.078	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Zinc	52		1.1	0.34	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Potassium	1200		27	4.4	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1
Sodium	760		54	7.1	mg/Kg	☼	01/20/16 10:14	01/20/16 18:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Barium	0.39	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B06 (0-2.3)

Lab Sample ID: 500-106454-31

Date Collected: 01/14/16 10:05

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:35	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:35	1
Magnesium	130		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:35	1
Manganese	0.16		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Potassium	1.9 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:35	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:35	1
Zinc	0.024 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 23:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:51	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		01/25/16 14:15	01/26/16 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014 J		0.018	0.0095	mg/Kg	☼	01/19/16 17:45	01/20/16 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	01/21/16 14:30	01/21/16 18:33	1
pH	9.14		0.200	0.200	SU			01/22/16 15:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B07 (0-2.3)

Lab Sample ID: 500-106454-32

Date Collected: 01/14/16 10:10

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	01/15/16 14:20	01/21/16 14:44	1
Dibromofluoromethane	102		75 - 120	01/15/16 14:20	01/21/16 14:44	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	01/15/16 14:20	01/21/16 14:44	1
Toluene-d8 (Surr)	98		75 - 122	01/15/16 14:20	01/21/16 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.018	J	0.037	0.0067	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Anthracene	0.040		0.037	0.0062	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Benzo[a]anthracene	0.17		0.037	0.0050	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B07 (0-2.3)

Lab Sample ID: 500-106454-32

Date Collected: 01/14/16 10:10

Matrix: Solid

Date Received: 01/15/16 10:25

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	0.20		0.037	0.0072	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Benzo[b]fluoranthene	0.31		0.037	0.0081	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Benzo[g,h,i]perylene	0.066		0.037	0.012	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Benzo[k]fluoranthene	0.13		0.037	0.011	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Chrysene	0.20		0.037	0.010	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Dibenz(a,h)anthracene	0.020	J	0.037	0.0072	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Fluoranthene	0.54		0.037	0.0069	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Fluorene	0.022	J	0.037	0.0053	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Indeno[1,2,3-cd]pyrene	0.068		0.037	0.0097	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B07 (0-2.3)

Lab Sample ID: 500-106454-32

Date Collected: 01/14/16 10:10

Matrix: Solid

Date Received: 01/15/16 10:25

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	<0.75		0.75	0.36	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Phenanthrene	0.28		0.037	0.0052	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
Pyrene	0.42		0.037	0.0074	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/18/16 06:58	01/25/16 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	01/18/16 06:58	01/25/16 18:12	1
2-Fluorophenol	97		25 - 110	01/18/16 06:58	01/25/16 18:12	1
Nitrobenzene-d5	85		25 - 115	01/18/16 06:58	01/25/16 18:12	1
Phenol-d5	86		31 - 110	01/18/16 06:58	01/25/16 18:12	1
Terphenyl-d14	108		36 - 134	01/18/16 06:58	01/25/16 18:12	1
2,4,6-Tribromophenol	37		35 - 137	01/18/16 06:58	01/25/16 18:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.1	0.22	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Arsenic	7.9		0.53	0.25	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Barium	63		0.53	0.097	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Beryllium	0.53		0.21	0.046	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Cadmium	0.23		0.11	0.031	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Chromium	15		0.53	0.091	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Cobalt	11		0.27	0.060	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Copper	21		0.53	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Iron	13000		11	4.4	mg/Kg	☼	01/22/16 13:57	01/23/16 18:47	1
Lead	52		0.27	0.13	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Magnesium	26000		5.3	2.2	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Calcium	66000	B	110	34	mg/Kg	☼	01/20/16 10:14	01/20/16 19:44	10
Manganese	440		0.53	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Nickel	27		0.53	0.14	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Selenium	0.29	J	0.53	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Vanadium	22		0.27	0.078	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Zinc	120		1.1	0.34	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Potassium	1700		27	4.3	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1
Sodium	1500		53	7.0	mg/Kg	☼	01/20/16 10:14	01/20/16 18:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Barium	0.37	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Client Sample ID: 2645-30-B07 (0-2.3)

Lab Sample ID: 500-106454-32

Date Collected: 01/14/16 10:10

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:42	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:42	1
Magnesium	99		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:42	1
Manganese	0.024	J	0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Potassium	6.2		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:42	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:42	1
Zinc	<0.50		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:55	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		01/25/16 14:15	01/26/16 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0094	mg/Kg	☼	01/19/16 17:45	01/20/16 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	01/21/16 14:30	01/21/16 18:33	1
pH	9.13		0.200	0.200	SU			01/22/16 15:31	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

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.
X	Surrogate is outside control 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 (optional)
Contact: Math Weiss
Company: Terracon
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: Math.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-106454
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								<ol style="list-style-type: none"> 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	23 TAL	Inorganics	TCLP 23 TAL	Inorganics	PH	SPLP 23 TAL	Inorganics			Comments
			Date	Time														
25		2645-30-001 (0-2.3)	11/14/16	9:15		S	✓	✓	✓	✓	✓	✓	✓					HOLD SPLP analysis
26		2645-30-002 (0-2.3)	11/14/16	9:20		S	✓	✓	✓	✓	✓	✓	✓					
27		2645-30-003 (0-2.3)	11/14/16	9:30		S	✓	✓	✓	✓	✓	✓	✓					
28		2645-30-004 (0-2.3)	11/14/16	9:40		S	✓	✓	✓	✓	✓	✓	✓					
29		2645-30-004 (0-2.3) Dup	11/14/16	9:45		S	✓	✓	✓	✓	✓	✓	✓					
30		2645-30-005 (0-2.3)	11/14/16	9:50		S	✓	✓	✓	✓	✓	✓	✓					
31		2645-30-006 (0-2.3)	11/14/16	10:05		S	✓	✓	✓	✓	✓	✓	✓					
32		2645-30-007 (0-2.3)	11/14/16	10:10		S	✓	✓	✓	✓	✓	✓	✓					

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>11/15/16</u>	Time <u>9:00</u>	Received By <u>David Bedern TA</u>	Company <u>TA</u>	Date <u>11/15/16</u>	Time <u>9:15</u>
Relinquished By <u>David Bedern TA</u>	Company <u>TA</u>	Date <u>11/15/16</u>	Time <u>10:25</u>	Received By <u>[Signature]</u>	Company <u>TAL</u>	Date <u>01/15/16</u>	Time <u>10:25</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: Meet IL TACO Requirements & HOLD SPLP analysis, Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-106454-6

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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").	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: FAP 338-IL 59 at Stearns Road-WO#012A Office Phone Number, if available: _____

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

IL 59 (near IL 59 and Stearns Road intersection) from IDOT STA 123+70 to 124+29 (ISGS Site 2645-31)

City: Bartlett State: IL Zip Code: 60103

County: DuPage Township: Wayne

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

Latitude: 41.97500 Longitude: -88.20700

(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: FAP 338-IL 59 at Stearns Road-WO#012A

Latitude: 41.97500 Longitude: -88.20700

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 2645-31. See Exhibits 9, 9B and Table 43 of the Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016

- 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 J106454-7. Also see Preliminary Site Investigation Report prepared by Terracon dated August 1, 2016. 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

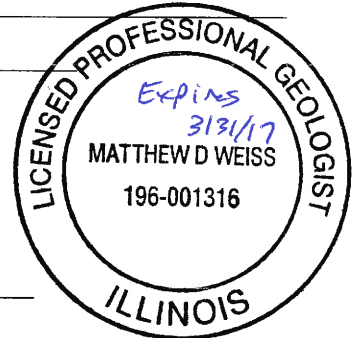
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

8/1/16
Date:



Comparison of Detected Constituents to MACs-Contract No. PTB 174-009;Work Order:012A

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-31)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-31-B01 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/15/2016
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.027
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.061
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.017
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.029
Chrysene	mg/kg	1.2	2.7	88		0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.057
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.017
Phenanthrene	mg/kg	1.3	2.5	210		0.020
Pyrene	mg/kg	1.9	3.0	2300		0.067
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		4.8
Barium	mg/kg	---	110	1500		44
Cadmium	mg/kg	---	0.6	5.2		0.18
Chromium, total	mg/kg	---	16.2	21		9.6
Lead	mg/kg	---	36	107		40
Mercury	mg/kg	---	0.06	0.1		0.029
Selenium	mg/kg	---	0.48	1.3		<0.44
Silver	mg/kg	---	0.55	4.4		<0.22
Antimony	mg/kg	---	4.0	5		0.36
Beryllium	mg/kg	---	0.59	22		0.36
Calcium	mg/kg	---	9,300	---		140000
Cobalt	mg/kg	---	8.9	20		6.2
Copper	mg/kg	---	19.6	2900		13
Cyanide	mg/kg	---	0.51	---		<0.54
Iron	mg/kg	---	15,900	15000		11000
Magnesium	mg/kg	---	4,820	325000		82000
Manganese	mg/kg	---	636	630		370
Nickel	mg/kg	---	18	100		14
Potassium	mg/kg	---	1,268	---		1100
Sodium	mg/kg	---	130	---		1300
Thallium	mg/kg	---	0.32	2.6		<0.44
Vanadium	mg/kg	---	25.2	550		15
Zinc	mg/kg	---	95	5100		48
pH			6.25	9		8.82
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		2.4
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--

Preliminary Site Investigation

FAP 338 -IL 59 at Stearns Road (PESA #2645-31)

Bartlett, DuPage County, IL

Terracon Project No. 11157112

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2645-31-B01 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	01/15/2016
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050
Silver,TCLP	mg/L	---	---	---		<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		260
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		----
Iron,TCLP	mg/L	---	---	---		<0.40
Magnesium,TCLP	mg/L	---	---	---		120
Manganese,TCLP	mg/L	---	---	---		0.44
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		1.3
Sodium,TCLP	mg/L	---	---	---		----
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.033

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: 500-106454-7
Client Project/Site: IDOT - Bartlett - WO 012

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
1/29/2016 1:38:33 PM

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

LINKS

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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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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
Chain of Custody	11
Receipt Checklists	12

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Job ID: 500-106454-7

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106454-7

Comments

No additional comments.

Receipt

The samples were received on 1/15/2016 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.1° C, 3.0° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-320297 recovered outside control limits for the following analyte: Chloroethane.

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 method blank for preparation batch 500-320170 and analytical batch 500-320323 contained Calcium and Magnesium above the reporting limit (RL). Associated samples 2645-31-B01 (0-5) (500-106454-33) were not re-extracted and/or re-analyzed because results were greater than 10X the values found in the method blank.

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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Client Sample ID: 2645-31-B01 (0-5)

Lab Sample ID: 500-106454-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.027	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.061		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.057		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	0.020	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	0.88	0.18	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.44	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.44	0.081	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.18	0.038	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.088	0.026	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.6		0.44	0.076	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.44	0.096	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	40		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	82000	B	44	18	mg/Kg	10	☼	6010B	Total/NA
Calcium	140000	B	88	28	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.44	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.44	0.12	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.22	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		0.88	0.28	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		22	3.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		44	5.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.82		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 - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106454-33	2645-31-B01 (0-5)	Solid	01/15/16 10:25	01/15/16 10:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Client Sample ID: 2645-31-B01 (0-5)

Lab Sample ID: 500-106454-33

Date Collected: 01/15/16 10:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Chloroethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	01/15/16 14:20	01/21/16 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	01/15/16 14:20	01/21/16 15:08	1
Dibromofluoromethane	101		75 - 120	01/15/16 14:20	01/21/16 15:08	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/15/16 14:20	01/21/16 15:08	1
Toluene-d8 (Surr)	100		75 - 122	01/15/16 14:20	01/21/16 15:08	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	☼	01/18/16 07:17	01/25/16 18:37	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Benzo[a]anthracene	0.027	J	0.039	0.0052	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Client Sample ID: 2645-31-B01 (0-5)

Lab Sample ID: 500-106454-33

Date Collected: 01/15/16 10:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.039	0.0075	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Benzo[b]fluoranthene	0.061		0.039	0.0084	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Benzo[g,h,i]perylene	0.017	J	0.039	0.013	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Benzo[k]fluoranthene	0.029	J	0.039	0.011	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Chrysene	0.038	J	0.039	0.011	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Fluoranthene	0.057		0.039	0.0072	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Client Sample ID: 2645-31-B01 (0-5)

Lab Sample ID: 500-106454-33

Date Collected: 01/15/16 10:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Phenanthrene	0.020	J	0.039	0.0054	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
Pyrene	0.067		0.039	0.0077	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/18/16 07:17	01/25/16 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	01/18/16 07:17	01/25/16 18:37	1
2-Fluorophenol	94		25 - 110	01/18/16 07:17	01/25/16 18:37	1
Nitrobenzene-d5	85		25 - 115	01/18/16 07:17	01/25/16 18:37	1
Phenol-d5	85		31 - 110	01/18/16 07:17	01/25/16 18:37	1
Terphenyl-d14	129		36 - 134	01/18/16 07:17	01/25/16 18:37	1
2,4,6-Tribromophenol	55		35 - 137	01/18/16 07:17	01/25/16 18:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	0.88	0.18	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Arsenic	4.8		0.44	0.20	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Barium	44		0.44	0.081	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Beryllium	0.36		0.18	0.038	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Cadmium	0.18		0.088	0.026	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Chromium	9.6		0.44	0.076	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Cobalt	6.2		0.22	0.050	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Copper	13		0.44	0.096	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Iron	11000		11	4.2	mg/Kg	☼	01/22/16 13:57	01/23/16 18:52	1
Lead	40		0.22	0.11	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Magnesium	82000	B	44	18	mg/Kg	☼	01/20/16 10:14	01/20/16 19:48	10
Calcium	140000	B	88	28	mg/Kg	☼	01/20/16 10:14	01/20/16 19:48	10
Manganese	370		0.44	0.087	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Nickel	14		0.44	0.12	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Selenium	<0.44		0.44	0.22	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Thallium	<0.44		0.44	0.22	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Vanadium	15		0.22	0.064	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Zinc	48		0.88	0.28	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Potassium	1100		22	3.6	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1
Sodium	1300		44	5.8	mg/Kg	☼	01/20/16 10:14	01/20/16 18:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Barium	0.34	J	0.50	0.050	mg/L		01/24/16 14:00	01/26/16 08:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/16 14:00	01/26/16 08:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/16 14:00	01/26/16 08:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Client Sample ID: 2645-31-B01 (0-5)

Lab Sample ID: 500-106454-33

Date Collected: 01/15/16 10:25

Matrix: Solid

Date Received: 01/15/16 10:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		01/24/16 14:00	01/26/16 08:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Copper	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Iron	<0.40		0.40	0.20	mg/L		01/24/16 14:00	01/26/16 08:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/16 14:00	01/26/16 08:48	1
Magnesium	120		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:48	1
Manganese	0.44		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Potassium	1.3 J		2.5	0.50	mg/L		01/24/16 14:00	01/26/16 08:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/16 14:00	01/26/16 08:48	1
Silver	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Vanadium	<0.025		0.025	0.010	mg/L		01/24/16 14:00	01/26/16 08:48	1
Zinc	0.033 J		0.50	0.020	mg/L		01/24/16 14:00	01/26/16 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.4		0.025	0.010	mg/L		01/26/16 15:24	01/27/16 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/16 14:00	01/25/16 15:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/16 14:00	01/25/16 15:59	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		01/25/16 14:15	01/26/16 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.010	mg/Kg	☼	01/19/16 17:45	01/20/16 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	01/21/16 14:30	01/21/16 18:34	1
pH	8.82		0.200	0.200	SU			01/22/16 15:36	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO 012

TestAmerica Job ID: 500-106454-7

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

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.

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: 500-106454-7

Login Number: 106454

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	(3.6)(2.1)(3.0)(0.9)c
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.	False	Refer to Job Narrative for details.
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	

